

Verbal approval By Sal. 4-4-73

FILE NOTATIONS

Entered in MFD File
Approved by Engineer
and Inspected
.....

Checked by Chief *PMB*
Approval Letter *7-11-73*
Disapproval Letter

COMPLETION DATA:

Date Well Completed *8-30-73*
NW..... WH..... TA.....
GW..... OS..... PA.....

Location Inspected
Bond released
State or Fee Land

LOGS FILED

Driller's Log
Electric Log (GPR)

..... CR-11..... Micro.....
BHC Sonic CR..... Sonic.....
CBLog..... CCLog..... Others.....

(Other instructions on reverse side)

THE STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☒GAS WELL ☐OTHER ☐SINGLE ZONE ☒MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Shell Oil Company (Rocky Mountain Division Production)

3. ADDRESS OF OPERATOR

1700 Broadway, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

2348' FNL and 1654' FEL Sec 32

At proposed prod. zone

SESW NE

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

6 miles SW of Talmage, Utah

15. DISTANCE FROM PROPOSED* 1654' from sec line LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 2348' from property & (Also to nearest drig. line, if any) lse line

16. NO. OF ACRES IN LEASE

1180

17. NO. OF ACRES ASSIGNED TO THIS WELL

640

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. No other wells on lse

19. PROPOSED DEPTH

12,400'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6120 GL (Ungraded)

22. APPROX. DATE WORK WILL START*

4-13-73

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	68#	300'	550 cu ft
12 1/4"	9 5/8"	40#	5,000'	800 cu ft
8 3/4"	7"	26#	10,800'	500 cu ft
6 1/8"	5" liner	18#	12,400'	300 cu ft

As per attached certified survey plat and Summary of Mud System Monitoring Equipment, BOP Equipment, and Mud.

Exception for topography under Order in Cause 139-3/139-4.

Verbal approval to drill obtained from Scherée De Rose by C. W. Van Kirk April 4, 1973.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

K. R. Jordan

TITLE Division Operations Engr.

DATE April 6, 1973

(This space for Federal or State office use)

PERMIT NO.

43-013-30221

APPROVAL DATE

APPROVED BY

TITLE

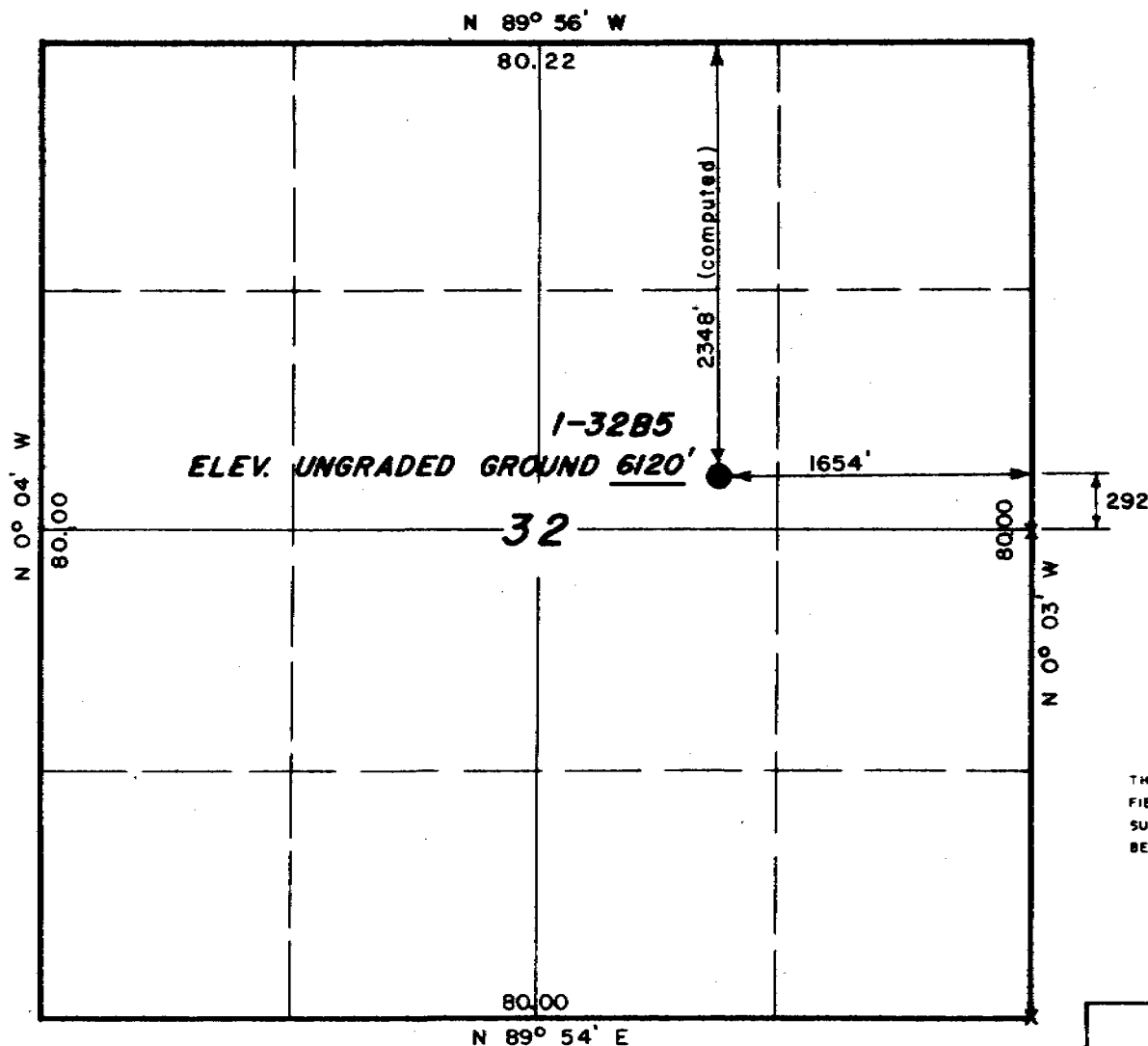
DATE

CONDITIONS OF APPROVAL, IF ANY:

T2S, R5W, U.S.B. & M.

PROJECT
SHELL OIL CO.

WELL LOCATION, 1-3285, AS
SHOWN IN THE SW 1/4 NE 1/4,
SECTION 32, T2S, R5W, U.S.B. & M.
DUCHESE COUNTY, UTAH.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Gene Stewart

REGISTERED LAND SURVEYOR
REGISTRATION NO 3154
STATE OF UTAH

X = SECTION CORNERS LOCATED

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 11 DEC. 1972
PARTY GS DA CF	REFERENCES GLO Plat
WEATHER COLD, SNOW	FILE SHELL

Mud System Monitoring Equipment

Equipment will be installed (with derrick floor indicators) and used throughout the period of drilling after setting and cementing intermediate string or upon reaching a depth at which abnormal pressures could occur.

BOP Equipment

300-6,000' - 3000 psi hydril GH
6,000'-TD - 3-ram type BOP's and 1 bag type
5000# working pressure

Tested when installed. Operative every trip and tested to 5,000 psi every 14 days. All information recorded on Tour sheets and daily drilling wire.

Mud

Surface - 10,000' - Clear water
Circulate reserve pit
Flocculate as necessary

10,000' - TD Weighted gel chemical

April 11, 1973

Shell Oil Company
1700 Broadway
Denver, Colorado 80202

Re: Well No's:
~~Roper #1-14B3,~~
Sec. 14, T. 2 S, R. 3 W,
Reeder #1-17B5,
Sec. 17, T. 2 S, R. 5 W,
Babcock #1-18B3,
Sec. 18, T. 2 S, R. 3 W,
Lawrence #1-30B4,
Sec. 30, T. 2 S, R. 4 W,
~~Broadhead #1-32B5,~~
Sec. 32, T. 2 S, R. 5 W,
Duchesne County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to wells is hereby granted as per the following:

- #1-14B3: - Granted in accordance with the Order issued in Cause No. 131-14, dated August 11, 1971.
- #1-30B4: - Granted in accordance with the Order issued in Cause No. 139-3/139-4, dated June 24, 1971.
- #1-17B5 - Granted in accordance with the Order issued in Cause No. 139-3/139-4, dated June 24, 1971, paragraph D, providing for a topographical exception.
- #1-18B3
- #1-32B5

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL - Chief Petroleum Engineer
HOME: 277-2890
OFFICE: 328-5771

STATE OF UTAH

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

OIL & GAS CONSERVATION COMMISSION

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____				5. LEASE DESIGNATION AND SERIAL NO. Patented	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____				6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Shell Oil Company (Rocky Mountain Div. Production)				7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 1700 Broadway, Denver, Colorado 80202				8. FARM OR LEASE NAME Broadhead	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 2348' FNL and 1654' FEL Sec 32 At top prod. interval reported below At total depth				9. WELL NO. 1-32B5	
14. PERMIT NO. 43-013-30221				10. FIELD AND POOL, OR WILDCAT Altamont	
DATE ISSUED 4-9-73				11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA SW/4 NE/4 Section 32-T 2S-R 5W	
15. DATE SPUDDED 4-22-73		16. DATE T.D. REACHED 6-16-73		12. COUNTY OR PARISH Duchesne	
17. DATE COMPL. (Ready to prod.) 8-30-73		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6115 GL, 6133 KB		13. STATE Utah	
20. TOTAL DEPTH, MD & TVD 11,820		21. PLUG, BACK T.D., MD & TVD 11,786		19. ELEV. CASINGHEAD 21'	
22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY →		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Wasatch & Flagstaff perfs 10,238-11,725	
25. WAS DIRECTIONAL SURVEY MADE No		26. TYPE ELECTRIC AND OTHER LOGS RUN BHCS-GR, CNL-FDC, DIL, CBL, VDL, and PDC		27. WAS WELL CORDED Yes	
28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	68#	336'	17 1/2"	450 SX	0
9 5/8"	40#	6,519'	12 1/4"	460 SX	0
7"	26#	10,333'	8 3/4"	250 SX	0
29. LINER RECORD					
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	
5"	10,171	11,817	185		
30. TUBING RECORD					
SIZE	DEPTH SET (MD)	PACKER SET (MD)			
31. PERFORATION RECORD (Interval, size and number)			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		
As per attachments			DEPTH INTERVAL (MD)		
			AMOUNT AND KIND OF MATERIAL USED		
33.* PRODUCTION					
DATE FIRST PRODUCTION 8-30-73		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing			WELL STATUS (Producing or shut-in) Producing
DATE OF TEST 9-25-73	HOURS TESTED 24	CHOKE SIZE 14/64"	PROD'N. FOR TEST PERIOD →	OIL—BBL. 569	GAS—MCF. 701
WATER—BBL. 0	GAS-OIL RATIO 1232				
FLOW. TUBING PRESS. 1700	CASING PRESSURE 0	CALCULATED 24-HOUR RATE →	OIL—BBL. 569	GAS—MCF. 701	WATER—BBL. 0
OIL GRAVITY-API (CORR.) 44.5° API					
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Used for fuel on lse, some sold to Mtn Fuel, and some flared					TEST WITNESSED BY
35. LIST OF ATTACHMENTS Well Log and History Csg and Cmtg Details					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records					
SIGNED <u>K. P. Jordan</u>		TITLE <u>Division Operations Engr.</u>		DATE <u>Oct. 29, 1973</u>	

*(See Instructions and Spaces for Additional Data on Reverse Side)

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner @ 11,817'

TD 11,820. PB 11,786. Flowing. OIL WELL COMPLETE.
On 24-hr test 9/25/73, flwd 569 BO, no wtr and 701
MCF gas (GOR 1232) on 14/64" chk w/1700 psi FTP and
zero CP from Wasatch and Flagstaff perfs 10,238,
10,239, 10,240, 10,241, 10,242, 10,277, 10,278, 10,279,
10,280, 10,385, 10,479, 10,497, 10,498, 10,545, 10,599,
10,600, 10,601, 10,719, 10,720, 10,721, 10,722, 10,863,
10,876, 10,877, 10,878, 10,879, 10,880, 10,881, 10,882,
10,883, 10,944, 11,021, 11,022, 11,023, 11,024, 11,262,
11,263, 11,264, 11,312, 11,351, 11,352, 11,353, 11,417,
11,418, 11,419, 11,420, 11,421, 11,424, 11,425, 11,453,
11,454, 11,455, 11,533, 11,595, 11,596, 11,597, 11,598,
11,599, 11,600, 11,601, 11,602, 11,603, 11,604, 11,605,
11,716, 11,717, 11,718, 11,719, 11,720, 11,721, 11,722,
11,723, 11,724, 11,725.
Oil Gravity: 44.50 API @ 60°F.
Compl Test Date: 9/25/73. Initial Prod Date: 8/30/73.
Elev: 6115 GL, 6133 KB.

Log Tops:	TGR	7,805 (-1672)	SEP 28 1973
	M ₁	9,192 (-3059)	
	WASATCH	9,386 (-3253)	
	FLAGSTAFF	10,725 (-4592)	

This well was drilled for routine development.
FINAL REPORT.

10239
11725

OIL WELL

ALTAMONT

SHELL OIL COMPANY

LEASE

BROADHEAD

WELL NO.

1-32B5

DIVISION

ROCKY MOUNTAIN

ELEV

6133 KB

FROM: 4-23 - 9-28-73

COUNTY

DUCHESNE

STATE

UTAH

UTAHALTAMONT

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test

"FR" 230/64/1/230. Drilling.
Located 2348' FNL and 1654' FEL (SW/4, NE/4) Section
32-T2S-R5W, Duchesne County, Utah.
Elev: 6120 GL (ungraded) APR 23 1973
Shell Working Interest: 100%
This is a routine Wasatch development test.
Spudded 17-1/2" hole @ 12 noon, 4/22/73. Dev: 1/2° @
146'.
Mud: (.452) 8.7 x 60

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
13-3/8" csg @ 336'

337/64/2/107. Flanging up. Circ hole 30 min prior
to running csg. Ran 336' of 13-3/8", 68#, K-55, ST&C
csg w/shoe @ 336'. Cmt'd w/200 sx Class "G" Neat
followed by 250 sx Class "G" treated w/3% CaCl₂.
Displaced w/wtr. CIP @ 7:45 PM, 4/23. APR 24 1973
Mud: (.452) 8.7 x 60

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
13-3/8" csg @ 336'

337/64/3/500. Drilling. Finished nipping up. Picked
up BHA, tagged top of cmt @ 285' and DO cmt and plug.
Mud: Aerated wtr APR 25 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
13-3/8" csg @ 336'

1706/64/4/869. Drilling. Dev: 1/2° @ 939.
Mud: Wtr APR 26 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
13-3/8" csg @ 336'

2267/64/5/561. Drilling. Dev: 1° 30' @ 1798'. Lost
and regained circ. APR 27 1973
Mud: Aerated wtr

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
13-3/8" csg @ 336'

4/28: 2767/64/6/500. Drilling.
4/29: 3145/64/7/378. Tripping for bit. Dev: 1/2°
@ 3145.
4/30: 3628/64/8/483. Drilling. APR 30 1973
Mud: Aerated wtr

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
13-3/8" csg @ 336'

4170/64/9/542. Drilling.
Mud: Aerated wtr MAY 1 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
13-3/8" csg @ 336'

4630/64/10/460. Drilling.
Mud: Aerated wtr MAY 2 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
13-3/8" csg @ 336'

4990/64/11/360. Drilling. Dev: 3 1/2° @ 4900. Tripped
for bit @ 4904.
Mud: Aerated wtr MAY 3 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
13 3/8" csg at 336'

5621/64/12/631 Drilling. MAY 4 1973
Mud: Wtr

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
9-5/8" csg @ 6519'

5/5: 5951/64/13/330. Going in hole w/new bit. Dev:
4° @ 5950.
5/6: 6494/64/14/543. Drilling
5/7: 6519/64/15/25. Nippling up BOP's. Dev: 4 1/2° @
6510. Cleaned hole and strapped out. Pulled wear ring.
RU and ran 157 jts 9-5/8", 40#, K-55, ST&C csg w/shoe @
6519' and FC @ 639'. Washed 20' to btm. Circ hole prior
to cmtg w/200 sx B-J Lite and 260 sx Class "C" w/both
containing D-31 retarder. No returns. Had partial
returns while displacing w/full returns last 120 bbls of
485 bbls displaced. CIP @ 1:30 AM, 5/7/73. Bumped plug
w/2000 psi. Set slips, nipped down and started nipping
up BOP's.
Mud: Aerated wtr MAY 7 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
9-5/8" csg @ 6519'

6519/64/16/0. Testing BOP stack. Finished nipping
up BOP's. Tested slips and seal assembly to 2000 psi.
Correction to 5/7 report: Had partial returns while
displacing, losing full returns last 120 bbls of 485
bbls displaced. MAY 8 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
9-5/8" csg @ 6519'

6648/64/17/129. Drilling. Tested BOP stack. Drld
cmt 2½ hrs. Tested 9-5/8" csg to 2000 psi, OK. Cmt'd
13-3/8" x 9-5/8" annulus in 2 stages w/total of 600 sx
Class "C" cmt - no press (300 sx each stage).
Mud: Wtr MAY 9 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
9-5/8" csg @ 6519'

7220/64/18/572. Drilling. MAY 10 1973
Mud: Wtr

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
9-5/8" csg @ 6519'

7730/64/19/510. Drilling. Dev: 6° @ 7630. Changed
bit @ 7630 and CO 50' to btm. MAY 11 1973
Mud: Wtr

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
9-5/8" csg @ 6519'

5/12: 8140/64/20/410. Drilling. Dev: 6° @ 8085.
Changed bit @ 8088.
Mud: Wtr MAY 14 1973
5/13: 8755/64/21/615. Drilling.
Mud: Wtr
5/14: 9067/64/22/312. Drilling. Mudded up @ approx
8700'.
Mud: (.478) 9.2 x 45 x 15.0 (10#/bbl walnut hulls)

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
9-5/8" csg @ 6519'

9336/64/23/269. Drilling. Background gas: 20 units.
Connection gas: 80 units. MAY 15 1973
Mud: (.494) 9.5 x 36 x 11.2 (8.2#/bbl walnut hulls)

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
9-5/8" csg @ 6519'

9485/64/24/149. Tripping out for new bit. Dev: 4° @
9475. Background gas: 5 units. Connection gas: 15
units. MAY 16 1973
Mud: (.499) 9.6 x 42 x 11.0 (11#/bbl walnut hulls)

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
9-5/8" csg @ 6519'

9528/64/25/43. Drilling. Tripped in w/new bit and
reamed 90'. Background gas: 20 units. Connection
gas: 30 units. Trip gas: 350 units. MAY 17 1973
Mud: (.504) 9.7 x 41 x 10.8 (12#/bbl walnut hulls)

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
9-5/8" csg @ 6519'

9584/64/26/56. Going in hole w/jk basket. Tripped out
@ 9584 for new bit, leaving 3 cones in hole. WO fishing
tools 3 hrs. Background gas: 13 units. Connection gas:
20 units. MAY 18 1973
Mud: (.504) 9.7 x 38 x 7.5 (7#/bbl walnut hulls)

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
9 5/8" csg at 6519'

5/19: 9604/64/27/20 Drilling. Went in hole w/Acme basket. Ran over jk. Tripped out of hole w/junk basket. Rec'd 1 1/2 cones. Went in hole w/mill tooth bit and 2 junk subs. Drld on iron. Drld 7' formation. Made trip for insert bit at 9591. Background gas - 30 units, connection 80, trip 250 units.

Mud: (.504) 9.7 x 41 x 5.4 (LCM 10.5 walnut)

5/20: 9708/64/28/104 Drilling. Worked past jk.

Mud: .515 x 9.8 x 45 x 5.6 (LCM 12.4 walnut)

5/21: 9826/64/29/118 Tripping for bit. Background gas - 20 units, connection gas - 30 units.

Mud: (.515) 9.9 x 42 x 6.0 (LCM 11.4 walnut) MAY 21 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
9 5/8" csg at 6519'

9916/64/30/90 Drilling. Came out of hole. Cut drill line. Went in hole and hit bridge at 8346. Cleaned out at intervals to 9826' (shale problems). BG gas 15 units, connection 38, trip 150 units.

Mud: (.525) 10.1 x 45 x 6.0 (LCM 11 walnut) MAY 22 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
9 5/8" csg at 6519'

10,031/64/31/115 Drilling. BG gas 5 units, conn gas none.

Mud: (.535) 10.3 x 44 x 5.0 (LCM 11.2) MAY 23 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
9 5/8" csg at 6519'

10,119/64/32/88 Drilling. Dev: 3 1/2° at 10,039. BG gas 500 units, trip gas 30 units, connection gas 850 units.

Mud: (.546) 10.5 x 45 x 3.2 (LCM 12#) MAY 24 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
9 5/8" csg at 6519'

10,175/64/33/56 Drilling. Bit #14 drlg 5'/H at 10,152, penetration slowed down to approx 45 min/ft. Lost 50 bbls on trip, lost 75 bbls drlg on Bit #14. Trip gas - 950 units, connection 35 units, BG gas 10-20 units.

Mud: (.551) 10.6 x 47 x 3.0 (LCM 11.8) MAY 25 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
9-5/8" csg @ 6519'

5/26: 10,213/64/34/38. Circ GCM. Drld 16 hrs and circ out gas 8 hrs prior to tripping for new bit (2 nozzles plugged). Lost 60-70 bbls mud last 24 hrs. Background gas: 10-1500 units w/10.5 ppg mud. Down-time gas: 2000 units.

Mud: (.551) 10.6 x 50 x 2.2 (13#/bbl LCM)

5/27: 10,287/64/35/74. Drilling. Circ and cond mud for trip. Changed bit - lost end off one cone on bit pulled @ 10,213. Background gas: 11 units. Connection gas: 20 units. Trip gas: 1200 units. Lost approx 50 bbls mud last 24 hrs.

Mud: (.551) 10.6 x 47 x 2.4 (15#/bbl LCM)

5/28: 10,335/64/36/48. Logging. Circ 3 1/4 hrs for logs. Short tripped, made SLM and tripped out for logs. RU Schl and ran DIL-SP from 10,332-6515 - hole in good cond. Now running CNL-FDC.

Mud: (.556) 10.7 x 47 x 1.8 (1% oil)

5/29: 10,335/64/37/0. RU to run 7" csg. Finished running logs as follows: CNL-FDC, BHCS-GR from 10,333-6513. RD Schl. Cond mud for csg. Laid down DP and DC's. Changed rams and pulled wear ring. Background gas: 8 units. Trip gas: 25 units. MAY 29 1973

Mud: (.556) 10.7 x 46 x 2.0 (12#/bbl walnut hulls) (1% oil)

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
7" csg @ 10,333'

10,335/64/38/0. Nippling up. Ran 27 jts 7", CS-95, 26#, LT&C and 217 jts 7", N-80, 26# LT&C csg w/shoe @ 10,333, FC @ 10,214. Cmdt w/100 sx B-J Lite containing 0.5% D-31 and 150 sx Class "G" w/1% D-31 and R-5 retarder. Overdisplaced w/3 bbls. Did not bump plug. Lost full returns after displacing 326 bbls. Total displacement 394 bbls. CIP @ 3:45 PM, 5/29/73. Set slips, nipped down, installed AP spool and tested to 3500 psi. MAY 30 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
7" csg @ 10,333'

10,335/64/39/0. DO cmt. Tested BOP's and chk manifold. Picked up kelly and tested. Picked up and ran thirty 4-3/4" DC's and 3 1/2" DP, tagging top of cmt @ 9995. Mud: (.587) 11.3 x 45 x 3.0 (10.4#/bbl walnut hulls) (1% oil) MAY 31 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
7" csg @ 10,334'

10,353/64/40/18. Drilling. DO cmt and press tested csg to 2600 psi for 15 min w/11.0 ppg mud. DO FC and cmt. Found shoe @ 10,334 instead of 10,333. Press tested csg to 2600 psi. DO shoe and cleaned hole for dia bit. Drld 6' and tripped for BHA and dia bit @ 10,341. Background gas: 5 units. Connection gas: 15 units. Mud: (.561) 10.8 x 46 x 4.0 (11#/bbl LCM) (1% oil) JUN 1 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
7" csg @ 10,334'

6/2: 10,472/64/41/119. Drilling. Background gas: 20 units. Connection gas: 120 units.
Mud: (.587) 11.3 x 44 x 4.0 (9.8#/bbl LCM)
6/3: 10,573/64/42/101. Drilling. Background gas: 80 units. Connection gas: 250 units.
Mud: (.634) 12.2 x 44 x 3.0 (9.6#/bbl LCM)
6/4: 10,669/64/43/96. Drilling. Background gas: 10 units. Connection gas: 25 units.
Mud: (.660) 12.7 x 45 x 2.6 (11.3#/bbl LCM) JUN 4 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
7" csg @ 10,334'

10,774/64/44/105. Drilling. Background gas: 20 units. Connection gas: 35 units.
Mud: (.707) 13.6 x 45 x 2.4 (10.3#/bbl walnut hulls) JUN 5 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
12,400' Wasatch Test
7" csg @ 10,334'

10,873/64/45/99. Drilling. Background gas: 8 units. Connection gas: 20 units.
Mud: (.717) 13.8 x 45 x 2.8 JUN 6 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
11,800' Wasatch Test
7" csg @ 10,334'

10,976/64/46/103. Drilling. Had 8' drlg break from 10,876-10,884. Lost approx 25 bbls mud. Background gas from 8 to 200 units. Connection gas: 10 units.
Mud: (.727) 14.0 x 45 x 2.5 (12#/bbl LCM) (1% oil)
JUN 7 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
11,800' Wasatch Test
7" csg @ 10,334'

11,010/64/47/34. Tripping. Circ 4-3/4 hrs. Repacked swivel. Made short trip. Strapped out. Tripped in slowly w/core bbl. No mud loss. Background gas: 10-20 units. Short trip gas: 35 units.
Mud: (.728) 14 x 45 x 2.6 (10.4#/bbl LCM) (1% oil) JUN 8 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
11,800' Wasatch Test
7" csg @ 10,334'

6/9: 11,069/64/48/59. Tripping. Core #1: 11,010-11,069. No mud loss. Background gas: 2-3 units. Trip gas: 83 units.
Mud: (.728) 14.0 x 45 x 2.4 (13.8#/bbl LCM) (1% oil)
6/10: 11,110/64/49/41. Tripping. Cut and rec 59' on core #1.
Mud: (.728) 14 x 45 x 2.5 (12#/bbl LCM) (1% oil)
6/11: 11,168/64/50/58. Tripping. Core #2: 11,069-11,110, cut and rec'g 41'. JUN 11 1973
Mud: (.728) 14 x 45 x 2.4 (13#/bbl LCM) (1% oil)

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
11,800' Wasatch Test
7" csg @ 10,334'

11,237/64/51/69. Drilling. Core #3 - 11,110-11,168,
cut and rec'd 58'. Lost 50 bbls mud @ 11,190. Lost
15 bbls mud on AM tour. Background gas: 10 units.
Connection gas: 25 units. JUN 12 1973
Mud: (.728) 14 x 45 x 2.4 (13#/bbl LCM) (1% oil)

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
11,800' Wasatch Test
7" csg at 10,334'

11,348/64/52/111 Drilling. BG gas - 10 units, conn
15 units. JUN 13 1973
Mud: (.733) 14.1 x 45 x 2.6 (LCM 12# (Walnut) (Oil Trc)

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
11,800' Wasatch Test
7" csg @ 10,334'

11,477/64/53/129. Drilling. Background gas: 10 units.
Connection gas: 15 units. JUN 14 1973
Mud: (.728) 14.0 x 45 x 2.4 (11.6#/bbl walnut hulls)

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
11,800' Wasatch Test
7" csg @ 10,334'

11,591/64/54/114. Drilling. Background gas: 10 units.
Connection gas: 13 units. JUN 15 1973
Mud: (.728) 14.0 x 45 x 2.2 (12#/bbl walnut hulls)

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
11,800' Wasatch Test
5" liner @ 11,817'

6/16: 11,726/64/55/135. Drilling. Background gas:
14 units. Connection gas: 22 units.
Mud: (.728) 14.0 x 45 x 2.2 (10.4#/bbl walnut hulls)
6/17: 11,820/64/56/94. Pulling out to log. Short
tripped to shoe and circ btms up to log. Drlg break
from 11,780-792. Lost approx 75 bbls mud in 24 hrs.
Background gas: 15 units. Connection gas: 30 units.
Short trip gas: 50 units.
Mud: (.728) 14.0 x 44 x 2.0 (13#/bbl walnut hulls)
6/18: 11,820/64/57/0. Pulling out of hole, WOC. Schl
ran DIL from 11,817-10,334, CNL-FDC w/coal from 11,817
10,300 and BHCS from 11,816-10,300. RD Schl. RU and
ran 39 jts 5", 18#, N-80 SFJ liner (1639') w/Burns
liner hanger @ 10,171. Rabbitted 3 1/2" DP. CO 10' to btm.
Set liner shoe @ 11,817, FC @ 11,686. Mixed and pmpd
185 sx Class "G" w/2% gel, 1% D-31 and 0.2% R-5. Full
returns while cmtg. Overdisplaced 1 bbl. No indication
of either plug bumping. CIP @ 4:30 AM, 6/18. JUN 18 1973
Mud: (.728) 14.0

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
11,800' Wasatch Test
5" liner @ 11,817'

11,820/64/58/0. Pulling out of hole. Laid down liner
setting tools and stabilizers. Picked up and ran in w/
3 stds DC's, bit and scraper tagging top of cmt @ 10,154.
Drld cmt from 10,154-10,171. Circ and WOC. Tested
liner lap to 2000 psi for 15 min, held OK.
Mud: (.728) 14.0 JUN 18 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
11,820' Wasatch Test
5" liner @ 11,817'

11,820/64/58/0. PB 11,800. Pulling out of hole to run inflow test. Laid down bit and scraper. Picked up and ran mill, scraper, three 3-1/8" DC's and 53 jts. 2-7/8" tbg w/3 1/2" DP to top of hanger @ 10,171. Ran to top of cmt @ 11,651. Drld float and cmt to 11,800. Press tested to 2000 psi for 15 min, OK. Circ btms up. Mud: (.728) 14.0 x 46 JUN 20 1973

Shell-Broadhead 1-32B5
(D) Brinkerhoff #47
11,820' Wasatch Test
5" liner @ 11,817'

11,820/64/59/0. PB 11,800. Nippling down BOP's. Pulled 3 1/2" DP, laid down small DC's and 2-7/8" tbg. Went in hole w/M&M test tool to 10,130. Made 30 min inflow test, OK. Pulled to 7500' and tested to 2750 psi for 15 min. Pulled to 5000' and tested to 3500 psi for 15 min. Pulled to 2500' and tested to 4250 psi for 15 min. All tests OK. Laid down DP and DC's. JUN 21 1973
Mud: (.728) 14.0 x 46

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
5" liner @ 11,817'

TD 11,820. PB 11,800. RDRT. Cleaned mud pits. Released rig @ 2 AM, 6/22/73. (RDUFA) JUN 22 1973

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
5" liner @ 11,817'

TD 11,820. PB 11,800. (RRD 6/22/73) Testing BOP. M&RU Western Oilwell Service Co. rig #17 on 8/13/73. Installed BOP and unloaded tbg. AUG 14 1973

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
5" liner @ 11,817'

TD 11,820. PB 11,800. Pulling tbg. Tested BOP to 5000 psi, OK. Tallied tbg, picked up 4-1/8" bit, 1640' of 2-7/8" tbg work string, 7" csg scraper and new tbg. Ran bit to 11,800. Displaced 250 gal B-J Mud Flush followed by 500 BFW, 150 gal B-J Mud Flush and 600 BFW. SI and checked for flowback, OK. Press tested to 5000 psi, OK. Sptd 35 bbls 2% NaCl wtr in liner. AUG 15 1973

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner @ 11,817'

TD 11,820. PB 11,786. Running 5 1/2" heat string. Pulled tbg, laying down bit, scraper and tail. RU OWP. Ran CBL and VDL from 9150 to 11,786, PBTD. Held 3000 psi on csg while logging. Cmt top @ 9154. Bonding good to fair. Ran PDC log from 11,786 to 9150. Set Baker Model "D" pkr w/flapper w/top @ 10,146. RD OWP. AUG 16 1973

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner @ 11,817'

TD 11,820. PB 11,786. Running prod eqmt. Picked up 71 jts 5½", 14#, K-55 csg w/Type I turned down cplgs. Landed csg w/tail @ 2992. Installed BPV, removed BOP, installed 6" 5000 psi x 10" 5000 psi tbg spool, installed BOP, removed BOP and tested BOP to 5000 psi, OK. Started picking up prod eqmt, testing to 7500 psi. -117

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner @ 11,817'

TD 11,820. PB 11,786.
8/18: SI. Finished running prod eqmt as follows:
Baker Model "C" extendable plug holder w/Model "B" pushout plug in place shop tested to 7500 psi w/tail @ 10,179, 30' x 2-7/8" NU 10rd non-perf'd prod tube, Baker anchor tbg seal assembly w/2 seal units, Baker "EL" on-off connector w/Otis 2.313" X-nipple w/2.255" no-go w/top @ 10,140, 4' sub w/7" centralizer, 2 jts tbg, mandrel #20H06-6 w/top @ 10,069, 12 jts tbg, mandrel #15H06-6 w/top @ 9696, 24 jts tbg, mandrel #13H06-6 w/top @ 8957, 25 jts tbg, mandrel #12H06-6 w/top @ 8188, 39 jts tbg, mandrel #5H06-6 w/top @ 6991, 55 jts tbg, mandrel #3H06-6 w/top @ 5305, 79 jts tbg, mandrel #2H06-6 w/top @ 2887, 93 jts tbg, 1' sub, 4' sub, 6' sub, two 10' subs, and 1 jt tbg. (All tbg and subs 2-7/8" EUE 8rd, 6.4#, N-80 and all mandrels Camco KBMG w/type "E" dummies w/BK-2 latches.) Spaced out tbg, latched into pkr, jayed off on-off connector, circ fresh trtd wtr in annulus and sptd 2% NaCl wtr in tbg. Latched onto on-off connector and landed tbg w/1000# set-down wt. Tested tbg to 7500 psi for 1 hr losing 80 psi. Installed BPV, removed BOP, installed 10,000 psi Xmas tree and tested tree to 10,500 psi, OK. Removed BPV. Released rig @ 6 PM, 8/17/73. RU Sperry Sun WL and knocked out Baker knockout plug and chased to PBTD. RD Sperry Sun. (RDUFA) AUG 20 1973

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner @ 11,817'

TD 11,820. PB 11,786. (RRD 8/20/73). Prep to AT. MI&RU OWP on 8/28/73. Perf'd one hole each unidirectionally using magnetic decentralized 2" steel tube carrier gun w/JRC Sidewinder charges. Depths to 10,280 refer to CNL-FDC log dated 5/28/73. Depths below 10,335 refer to CNL-FDC log dated 6/17/73. Run #1: 10,238, 10,239, 10,240, 10,241, 10,242, 10,277, 10,278, 10,279, 10,280, 10,385, 10,479, 10,497, 10,498, 10,545, 10,599, 10,600, 10,601, 10,719, 10,720, 10,721, 10,722, 10,863, 10,876, 10,877, 10,878, 10,879, 10,880, 10,881, 10,882, 10,883, 10,944, 11,021, 11,022, 11,023, 11,024, 11,262, 11,263, 11,264, 11,312, 11,351. Press from 1100-1200 psi. Run #2: 11,352, 11,353, 11,417, 11,418, 11,419, 11,420, 11,421, 11,424, 11,425, 11,453, 11,454, 11,455, 11,533, 11,595, 11,596, 11,597, 11,598, 11,599, 11,600, 11,601, 11,602, 11,603, 11,604, 11,605, 11,716, 11,717, 11,718, 11,719, 11,720, 11,721, 11,722, 11,723, 11,724, 11,725. Press from 1500-1450 psi. Did not perf 11,787 or 11,788 - could not get below 11,773. RD OWP. AUG 29 1973

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner @ 11,817'

TD 11,820. PB 11,786. Prep to flow to pit. RU B-J on 8/29 and AT gross perfs 10,238-11,725 w/23,800 gal 15% HCl. Each 1000 gal acid contained 3 gal G-10, 3 gal C-15, 3 gal J-22, 30# OS-160 Wide Range Unibeads and 30# OS-160 Button Unibeads. Flushed w/3780 gal FW w/each 1000 gal containing 165# NaCl and 3 gal G-10. Pmpd acid as follows. Pmpd 31 bbls acid, dropped one 7/8" RCN ball sealer, pmpd 7 bbls acid. Repeated one ball sealer and 7 bbls acid 72 times. Pmpd 25 bbls acid and pmpd flush. Max press 9000 psi, avg 6800 psi, min 4800 psi. Max rate 8.75 B/M, avg 8 B/M, min 3.75 B/M. ISIP 3250 psi decr to 3200 psi in 5 min to 3100 psi in 10 min to 3000 psi in 15 min to 2900 psi in 20 min. Good ball action. Breaks up to 1000 psi. RD B-J. AUG 30 1973

Shell-Broadhead
(D)
11,820' Wasatch Test
KB 6133'
5" liner @ 11,817'

TD 11,820. PB 11,786. Flowing. SITP 3100 psi. Flwd to pit 5 1/2 hrs on 64/64" chk, flwg est 300 BO and 275 BW w/GOR of 1000 and 600-425 psi FTP. Last hr, flwd est 70 BO and 5 BW w/GOR of 1000 and FTP from 450-425 psi. SI w/450 psi incr to 2625 psi in 30 min to 2900 psi in 2 hrs. Changed 10,000# Xmas tree to 5000# tree. Turned to tank battery. On 7-hr test, flwd 250 BO, 1 BW w/GOR of 1078, on 11/64" chk w/2700 psi FTP. AUG 31 1973

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'

TD 11,820. PB 11,786.

SEP 4 1973

On various tests, well flowed as follows:

Hr Test	Date	BO	BW	MCF	CHK	FTP	CP
10	9-1	467	55	350	11/64"	3000	0
24	9-2	583	2	764	"	2500	0
16	9-3	195	24	496	10/64"	3350	0
24	9-4	535	1	452	"	2650	0

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner at 11,817'

TD 11,820. PB 11,786. On 24-hr test, well flowed
658 BO, 0 BW, and 699 MCF on 10/64" chk w/2500 FTP,
0 CP. SEP 5 1973

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner at 11,817'

TD 11,820. PB 11,786. Flowing. On 24-hr test,
well flowed 504 BO, 0 BW, and 652 MCF on 10/64" chk w/
2400 FTP and 0 CP. SEP 6 1973

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner at 11,817'

TD 11,820. PB 11,786. Flowing. On 24-hr test, well
flowed 494 BO, 0 BW and 699 MCF on 10/64" chk w/2400
psi FTP and 0 CP. SEP 7 1973

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner at 11,817'

TD 11,820. PB 11,786. Flowing. On various tests,
well flowed as follows:

Date	Hr Test	BO	BW	MCF	CHK	FTP	CP
9-8	24	516	0	699	10/64"	2400	0
9-9	24	515	0	699	10/64"	2300	0
9-10	20	292	0	521	10/64"	2400	0

SEP 10 1973

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner @ 11,817'

TD 11,820. PB 11,786. Flowing. On 24-hr test, flwd
493 BO, no wtr and 670 MCF gas on 10/64" chk w/2250 psi
FTP and zero CP. SEP 11 1973

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner @ 11,817'

TD 11,820. PB 11,786. Flowing. On 24-hr test, flwd
509 BO, no wtr and 651 MCF gas on 10/64" chk w/2200
psi FTP and zero CP. SEP 12 1973

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner @ 11,817'

TD 11,820. PB 11,786. Flowing. On 2-hr test, flwd
103 BO, no wtr and 54 MCF gas on 10/64" chk w/2200
psi FTP and zero CP. SEP 13 1973

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner @ 11,817'

TD 11,820. PB 11,786. SI. SEP 14 1973

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner @ 11,817'

TD 11,820. PB 11,786.
9/15: SI. SEP 17 1973
9/16: SI.
9/17: Flowing. On 24-hr test, flwd 495 BO, no wtr
and 434 MCF gas on 12/64" chk w/2350 psi FTP and zero
CP.

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner @ 11,817'

TD 11,820. PB 11,786. Flowing. On 24-hr test, flwd
464 BO, no wtr and 498 MCF gas on 12/64" chk w/2200 psi
FTP and zero CP. SEP 18 1973

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner @ 11,817'

TD 11,820. PB 11,786. Flowing. On 24-hr test, flwd
467 BO, 30 BW and 519 MCF gas on 14/64" chk w/2200 psi
FTP and zero CP. SEP 19 1973

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner @ 11,817'

TD 11,820. PB 11,786. Flowing. On 24-hr test, flwd
516 BO, no wtr and 617 MCF gas on 14/64" chk w/2000 psi
FTP and zero CP. SEP 20 1973

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner at 11,817'

TD 11,820. PB 11,786. Flowing. On 24-hr test, well
flowed 531 BO, 4 BW and 617 MCF on 14/64" chk w/2000
FTP and 0 CP. SEP 21 1973

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner @ 11,817'

TD 11,820. PB 11,786. Flowing. On 24-hr tests, flwd
as follows:
Report SEP 24 1973

Date	BO	BW	MCF Gas	Chk	FTP	CP
9/22	505	0	617	14/64"	1900	0
9/23	365	0	552	14/64"	2150	0
9/24	291	3	567	10/64"	2150	0

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner at 11,817'

TD 11,820. PB 11,786. Flowing. On 24-hr test,
well flowed 521 BO, 0 BW, and 702 MCF on 14/64"
chk w/1900 psi FTP and 0 CP. SEP 25 1973

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner @ 11,817'

TD 11,820. PB 11,786. Flowing. On 24-hr test, flwd
569 BO, 0 BW and 701 MCF gas on 14/64" chk w/1700 psi
FTP and zero CP. SEP 26 1973

Shell-Broadhead 1-32B5
(D)
11,820' Wasatch Test
KB 6133'
5" liner @ 11,817'

TD 11,820. PB 11,786. Flowing. On 24-hr test, flwd
546 BO, no wtr and 590 MCF gas on 14/64" chk w/1700 psi
FTP and zero CP. SEP 27 1973

CASING AND CEMENTING

Field Altamont Well Broadhead 1-32B5
Job: 13 3/8 " O.D. Casing/Liner Ran to 336 feet (KB) on 4-23, 1973

Jts.	Wt.	Grade	Thread	New	Feet	From	To
					21	KB	CHF
						CHF	
8	68#	K-55	ST&C 8rd	X			336

8 jts Total

Casing Hardware:
Float shoe and collar type Guide shoe
Centralizer type and product number _____
Centralizers installed on the following joints 12' up from shoe, collar of 1st jt, and next 4 collars up
Other equipment (liner hanger, D.V. collar, etc.) _____

Cement Volume:
Caliper type _____ Caliper volume _____ ft³ + excess over caliper
_____ ft³ + float collar to shoe volume _____ ft³ + liner lap _____ ft³
+ cement above liner _____ ft³ = _____ ft³ (Total Volume).

Cement:
Preflush—Water 5 bbls, other _____ Volume _____ bbls
First stage, type and additives 200 sx Class "G", followed by 250 sx Class "G" treated w/3% CaCl₂ Weight _____ lbs/gal, yield _____
ft³/sk, volume _____ sx. Pumpability _____ hours at _____ °F.
Second stage, type and additives _____ Weight _____ lbs/gal, yield _____
ft³/sk, volume _____ sx. Pumpability _____ hours at _____ °F.

Cementing Procedure:
Rotate/reciprocate _____
Displacement rate _____
Percent returns during job Full
Bumped plug at _____ AM/PM with _____ psi. Bled back _____ bbls. Hung csg with _____ lbs on slips.

Remarks: No baffle, displaced plug to 300'.
Had returns of cmt before displacing inside csg. Displaced w/wtr. CIP
7:45 PM 4-23-73.

Drilling Foreman D. W. Enterline
Date 4-24-73

CASING AND CEMENTING

Field Altamont Well Broadhead 1-32B5
Job: 9 5/8" O.D. Casing/Liner Ran to 6519 feet (KB) on 5-7, 1973

<u>Jts.</u>	<u>Wt.</u>	<u>Grade</u>	<u>Thread</u>	<u>New</u>	<u>Feet</u>	<u>From</u>	<u>To</u>	
						KB	CHF	21.25
						CHF		
154	40#	K-55	ST&C	X	6373.12	21.25	6394.37	
		HAL Diff Float Collar			2.30	6394.37	6396.67	
3	40#	K-55	ST&C	X	121.23	6396.67	6517.90	
		HAL Guide Shoe			1.10	6517.90	6519.00	
157 jts Total								

Casing Hardware:

Float shoe and collar type Hal guide and diff fill collar
Centralizer type and product number Halliburton
Centralizers installed on the following joints 10' above shoe and 1 - 40' up and 1 - 80' up
Other equipment (liner hanger, D.V. collar, etc.)

Cement Volume:

Caliper type _____ Caliper volume _____ ft^3 + excess over caliper
 ft^3 + float collar to shoe volume _____ ft^3 + liner lap _____ ft^3
+ cement above liner _____ ft^3 = _____ ft^3 (Total Volume).

Cement:

Preflush-Water 20 bbls, other wtr Volume 20 bbls
First stage, type and additives 200 sx BJ lite, .75% D-31 Weight 12.4 lbs/gal, yield _____
 ft^3/sk , volume _____ sx. Pumpability 4 hours at 130 °F.
Second stage, type and additives 260 sx Class "G", 1% D-31 Weight 15.9 lbs/gal, yield _____
 ft^3/sk , volume _____ sx. Pumpability 4 hours at 130 °F.

Cementing Procedure:

Rotate/reciprocate None
Displacement rate 6 1/2 B/M
Percent returns during job None - partial at times
Bumped plug at 1:30 AM/PM with 2,000 psi. Bled back 3 bbls. Hung csg
with 240,000 lbs ~~xxxxxxx~~

Remarks:

No returns mixing. Partial returns displacing. Lost full returns on last 120 displacement. Total displacement - 485 bbls. Mixed and pumped 460 sx cement w/ retarder. Float collar at 6394, 3 jts between shoe and float. Will place 600 sx on outside.

Drilling Foreman C. Grady, Jr.
Date 5-7-73

CASING AND CEMENTING

Field Altamont Well Broadhead 1-32B5
Job: 7 " O.D. Casing/Line Ran to 10,333 feet (KB) on 5-29, 1973

Jts.	Wt.	Grade	Thread	New	Feet	From KB	To CHF 16.5
						CHF	
217	26#	N-80	LT&C	X	9,203.08	16.5	9,219.58
24	26#	S-95	LT&C	X	994.85	9,219.58	10,214.43
		Float Collar			1.83	10,214.43	10,216.26
3	26#	S-95	LT&C	X	114.66	10,216.26	10,330.92
		Float Shoe			2.42	10,330.92	10,333.34
244 jts Total							

Casing Hardware:

Float shoe and collar type Hal Type "F" Diff Fill Float and Shoe
Centralizer type and product number Halliburton - latch on
Centralizers installed on the following joints 10' up on shoe jt, then every other jt for next 8 jts
Other equipment (liner hanger, D.V. collar, etc.)

Cement Volume:

Caliper type GR Caliper volume 450 ft³ + excess over caliper
ft³ + float collar to shoe volume ft³ + liner lap ft³
+ cement above liner ft³ = 450 ft³ (Total Volume).

Cement:

Preflush-Water 10 bbls, other Volume bbls
First stage, type and additives 100 sx BJ lite, .5% D-31 Weight 12.4 lbs/gal, yield 3.04
ft³/sk, volume 100 sx. Pumpability 4 hours at 185 °F.
Second stage, type and additives 150 sx Class "G", 1% D-31, .1% R-5 Weight 15.9 lbs/gal, yield 1.14
ft³/sk, volume 150 sx. Pumpability 4 hours at 185 °F.

Cementing Procedure:

Rotary/reciprocate prior to cementing
Displacement rate 5 1/2 B/M
Percent returns during job (Under remarks)
Bumped plug at 230,000 lbs on slips. Overdisp 3 bbls. Bled back 0 bbls. Hung csg

Remarks:

Full returns while disp 326 bbls. Lost full returns on last 68 bbls displaced.
Displaced 394 total bbls - 3 bbls over, calculated bbls - 391. CIP 3:45 PM
5-29-73.

Drilling Foreman C. Grady, Jr.
Date 6-1-73

CASING AND CEMENTING

Field Altamont Well Broadhead 1-32B5
Job: 5 " O.D. Casing Liner. Ran to 11,817 feet (KB) on 6-17, 1973

<u>Jts.</u>	<u>Wt.</u>	<u>Grade</u>	<u>Thread</u>	<u>New</u>	<u>Feet</u>	<u>From</u>	<u>To</u>
						KB	CHF 7.35
						CHF	
					7.35	10,171.00	10,178.35
36	18#	N-80	SFJP	X	1,508.63	10,178.35	11,686.98
					1.73	11,686.98	11,688.71
3	18#	N-80	SFJP	X	126.49	11,688.71	11,815.20
					2.30	11,815.20	11,817.50
39	jts	Total					

Casing Hardware:

Using Hardware:

Float shoe and collar type Hal Type F diff fill (Float and shoe)

Centralizer type and product number B & W

Centralizers installed on the following joints Above shoe, above float, and every fifth jt

Other equipment (liner hanger, D.V. collar, etc.) Burns plain type hanger w/cementing grooves and circ ports and Chevron pkg

Cement Volume:

Caliper type CNI-FDC . Caliper volume 115 ft³ + excess over caliper
38 ft³ + float collar to shoe volume 12 ft³ + liner lap 16 ft³
 + cement above liner 65 ft³ = 246 ft³ (Total Volume).

Cement:

ment: Preflush—Water 10 bbls, other -- Volume 10 bbls
First stage, type and additives 185 sx Class "G", 2% gel, 1% D-31, and .2% R-5
Weight 15 lbs/gal, yield 1.33
ft³/sk, volume 185 sx. Pumpability 4 hours at 215 °F.
Second stage, type and additives _____
Weight _____ lbs/gal, yield _____
ft³/sk, volume _____ sx. Pumpability _____ hours at _____ °F.

Cementing Procedure:

menting Procedure: Free until liner was set
 Rotate/reciprocate 3 B/M in DP, 4 B/M in liner
 Displacement rate 100%
 Percent returns during job 4:30 AM/PM with no psi. Bled back 1/2 bbls. Hung csg
 Bumped plug at 24,215 lbs on slips.

Remarks:

Had no indication of either plug bumping. Overdisplaced one bbl.

Drilling Foreman C. Grady, Jr.
Date 6-19-73

9 5/8 SET @ 6519'

TOP LINER @ 10,171'

HANGER

154' LARV

7" SET @ 10,333.36

1646.50 ←

36 JTS 5" LINER 18" SFJ-P N-80

1515.98 ←

FIRST COLLAR @ 11,686'

←

3 JTS LINER

130.52 ←

CLEARED OUT CEMENT TO 11,912

SHOE @ 11,817'

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS CONSERVATION
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name and Number Shell Oil-Broadhead 1-32B5
Operator Shell Oil Company (Rocky Mountain Division Production)
Address 1700 Broadway, Denver, Colorado 80202
Contractor Brinkerhoff Drilling Company
Address 600 Denver Club Building, Denver, Colorado 80202
Location SW 1/4, NE 1/4, Sec. 32, T. 2N., R. 5E., Duchesne County.
S W

Water Sands:

	<u>Depth:</u>	<u>Volume:</u>	<u>Quality:</u>	
	From -	To -	Flow Rate or Head -	Fresh or Salty -
1.	<u>No sands tested or evaluated and no water flow encountered</u>			
2.	<u>(GR from 200' to TD)</u>			
3.				
4.				
5.				

(Continue on Reverse Side if Necessary)

Formation Tops:

- NOTE: (a) Upon diminishing supply of forms, please inform this office.
(b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure, (see back of this form)
(c) If a water quality analysis has been made of the above reported zone, please forward a copy along with this form.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE
(Other instructions on reverse side)Form approved.
Budget Bureau No. 42-R1424.

3. LEASE DESIGNATION AND SERIAL NO.

Patented

4. IF INDIAN, ALLOTTEE OR TRIBE, NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Broadhead

9. WELL NO.

1-32B5

10. FIELD AND POOL, OR WILDCAT

Altamont

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

SW/4 NE/4 Section 32-

T2S-R5W

12. COUNTY OR PARISH

Duchesne

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)1. ☐ OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR

Shell Oil Company

3. ADDRESS OF OPERATOR

1700 Broadway, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

2348' FNL and 1654' FEL Section 32

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

6133 KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐
☐
☐
☐

PULL OR ALTER CASING

☐
☐
☐
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐
☐
☐
☐

REPAIRING WELL

☐
☐
☐
☐

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other) Acid Treat for Scale Removal

☒(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

See Attachment

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Division Operations Engr.

DATE 3/13/75

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

cc: Utah Oil and Gas Conservation Commission

*See Instructions on Reverse Side

ACID TREAT FOR SCALE REMOVAL

ALTAMONT

SHELL OIL COMPANY

LEASE BROADHEAD

WELL NO. 1-32B5

DIVISION WESTERN

ELEV 6133 KB

FROM: 2/11/75

COUNTY DUCHESNE

STATE UTAH

UTAH

ALTAMONT

Shell-Broadhead

1-32B5

(AT for Scale Removal)

"FR" TD 11,820. PB 11,786. Acid Treatment for Scale Removal Complete. Pumped 1500 gals 15% HCl w/500 gals Toluene containing 6 gals C-15 & 3 gals J-22/1000 gals. Pumped 2000 gals HCl @ 3 B/M & 30 bbls diesel @ 3-1/2 B/M. FTP 400 psi. Well went on vacuum immediately. Pmp'd 59 bbls diesel to displace the acid, well stayed on vacuum. On 24-hr test prior to AT flowed 154 BO, 7 BW through 25/64" chk w/0 psi FTP. On 24-hr test after AT flowed 330 BO & 100 BW through 32/64" chk w/250 psi FTP. FEB 11 1975
FINAL REPORT

STATE OF UTAH

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

OIL & GAS CONSERVATION COMMISSION

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Patented
2. NAME OF OPERATOR Shell Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1700 Broadway, Denver, Colorado 80202		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2348' FNL and 1654' FEL Section 32		8. FARM OR LEASE NAME Broadhead
14. PERMIT NO.		9. WELL NO. 1-32B5
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6133 KB		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA SW/4 NE/4 Section 32-T2S-R5W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input checked="" type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input checked="" type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

See attachment

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: May 3, 1976

BY: P.H. Driscoll

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Div. Ops. Engr.

DATE 4/27/76

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

cc: USGS - Utah w/attachment

*See Instructions on Reverse Side

REPERF & RESTIM & RUN PMP & PDS
SHELL OIL COMPANY

FROM: 1/13/76 - 4/26/76

LEASE	BROADHEAD	WELL NO.	1-32B5
DIVISION	WESTERN	ELEV	6133 KB
COUNTY	DUCHESSNE	STATE	UTAH

ALTAMONT

UTAH

ALTAMONT

Shell-Broadhead 1-32B5
(Reperf & Restim)

"FR" TD 11,820. PB 11,786. AFE #417207 provides funds to reperf & restimulate. 1/8 MI&RU Newsco 1" CTU & BJ. RIH w/1" CT & spt'd 28 bbls gelled, dbl inh'd, wt'd 10% acetic acid from PBD to 10,238. POOH. RD&MO Newsco & BJ. SI well. 1/12 MI&RU OWP to perf unidirectionally w/a 2" steel, hollow-carrier, thru-tbg gun decentralized w/magnets using Harrison 6.2 gram charges gross interval 11,508-11,170 (205 holes in 49 zones). All depths refer to OWP CBL log dated 8/15/73. RIH & hit wax plug. POOH. MI&RU hot oiler & pmp'd 30 bbls hot diesel down tbg. RD&MO hot oiler. Run #1 - perf'd 11,508-11,463 (35 holes). POOH. SD for night.

JAN 13 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. (Correction to rept of 1/13: Perf'd 11,508-11,454 (41 holes).) RU OWP to fin perf'g. Run #2 - start & end tbg press 250 psi. Perf'd 11,453-11,338 (41 holes). Run #3 - start & end tbg press 300 psi. Perf'd 11,337-11,287 (41 holes). Run #4 - RIH & perf'd 11,286-11,234 (41 holes). End tbg press 400 psi. Run #5 - start & end tbg press 450 psi. Perf'd 11,233-11,170 (41 holes). Perf'g complete for a total of 205 holes in 49 zones. RD&MO OWP. SI well.

JAN 14 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. SITP 800 psi. MI&RU BJ to AT gross perfs 10,238-11,725 (279 holes) w/1176 bbls 15% HCl acid as follows: Pmp'd 3 bbls acid & dropped one 7/8" RCN ball sealer (sp gr 1.2) & repeated procedure 389 times for a total of 1170 bbls acid & 390 ball sealers. Note: After 167 bbls acid, job was SD for mechanical reasons. Once job restarted, trtmt was slugged w/30 add'l ball sealers @ rate of a bbl & a ball for a total of 420 balls. All acid made up according to prog. During trtmt 3500 psi was placed & held on tbg-csg annulus. After slugging w/30 balls trtmt resumed @ 3 bbls acid & 1 ball. Flushed w/85 bbls wtr & 5 bbls diesel. Max press 10,000 psi, min 4100, avg 7500. Max rate 17.5 B/M, min 2, avg 14. SITP 4200 psi, 5 & 10 mins 2800, 15 mins 2700. Left well SI for CR log.

JAN 15 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. SITP 50 psi. MI&RU OWP & ran RA tracer log to detect accumulation of RA sd used in AT. POOH. SITP 150 psi. RD&MO OWP. Opened well to pit. SITP 150 psi & well bled to 0 psi in 5 mins. Stop-cocked well & press would build to 50 psi & bleed to 0 psi when opened. Flwd approx 5 bbls diesel to pit in 4 hrs. SI well. Prep to kick-off w/Newsco CTU. JAN 16 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. 1/16 500 psi. Opened well to pit & well flwd gas w/est 17 bbl diesel; FTP to 0. MI&RU Newsco 1" CTU & N2 trk. RIH w/1" CT while pmp'g N2. Varied N2 rate from 300 cu ft/min to as high as 900 cu ft/min. Made stops & blew tbg dry @ 4000', 6000', 8000' & 10,000'. Reduced rate @ 10,000' for 1/2 hr. Incr'd N2 rate & est 2 bbls crude. Reduced N2 rate to 200 cu ft/min & POOH. RD&MO Newsco. Est recovery 10 BO & some wtr. SI overnight. 1/17 RA tracer log obtained 1/15 indicated a very good trtmt. 20-hr SITP 1750. Opened well to pit & well flwd only gas & FTP to 0 in 5 mins. SI overnight. 1/18 24-hr SITP 1700. Opened well to pit & FTP to 0 in 2 mins. Flwd only gas. SI well overnight. Prep to turn well to battery.

JAN 19 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. SI.

JAN 20 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. Flowing. On 24-hr test, flwd 40 BO, 0 BW, 61 MCF gas thru 16/64" chk w/50 psi FTP

JAN 21 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. Flowing. On 24-hr test, flwd 22 BO, 0 BW, 26 MCF gas thru 19/64" chk w/50 psi FTP.

JAN 22 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. Flowing. On 24-hr test, flwd 22 BO, 0 BW, 26 MCF gas thru 19/64" chk w/30 psi FTP.

JAN 23 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. Flowing. On various tests, flwd:

Rept Date	Hrs	BO	BW	MCF Gas	Chk	FTP
1/24:	24	0	23	15	19/64"	50
1/25:	24	0	0	15	19/64"	50
1/26:	24	3	1	31	19/64"	100

JAN 26 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. Flowing. On 24-hr test, flwd 10 BO, 0 BW, 15 MCF gas thru 19/64" chk w/100 psi FTP.

JAN 27 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. Flowing. On 24-hr test, flwd 1 BO, 0 BW, 15 MCF gas thru 19/64" chk w/100 psi FTP.

JAN 28 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. Flowing. On 24-hr test, flwd 10 BO, 0 BW, 15 MCF gas thru 19/64" chk w/100 psi FTP.

JAN 29 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

11,820. PB 11,786. Flowing. On 24-hr test, flwd 5
BO, 0 BW, 15 MCF gas thru 19/64" chk w/100 psi FTP.

JAN 30 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. Flowing. On various tests, flwd:

Rept Date	Hrs	BO	BW	MCF Gas	Chk	FTP
1/31:	24	9	1	15	19/64"	100
2/1:	24	2	0	15	19/64"	100
2/2:	SI					

FEB 02 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. SI.

FEB 03 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. SI.

FEB 04 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. SI.

FEB 05 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. SI.

FEB 06 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. Flowing. On various tests, flwd:

Rept Date	Hrs	BO	BW	MCF Gas	Chk	FTP
2/7:	24	15	0	68	19/64"	100
2/8:	24	5	0	15	19/64"	100
2/9:	24	0	0	15	19/64"	100

FEB 09 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. Flowing. On 24-hr test, flwd
2 BO, 1 BW, 15 MCF gas thru 19/64" chk w/100 psi FTP.

FEB 10 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. Flowing. On 24-hr test, flwd 6
BO, 0 BW, 7 MCF gas (chk SI) w/250 psi FTP.

FEB 11 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. SI.

FEB 12 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. SI.

FEB 13 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. 2/14-16 SI. 2/17 On 24-hr test,
flwd 21 BO, 0 BW, 44 MCF gas thru 19/64" chk w/100 psi FTP.

FEB 17 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

11,820. PB 11,786. Flowing. On 24-hr test, flwd 4
BO, 0 BW, 9 MCF gas thru 19/64" chk w/100 psi FTP
FEB 18 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. Flowing. On 24-hr test, flwd 0
BO, 0 BW, 9 MCF gas thru 19/64" chk w/100 psi FTP.

FEB 19 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,786. BHP complete; WO artificial
lift.

(Report discontinued until further activity) FEB 20 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,800. (RRD 2/20/76) AFE #418514 provides
funds to pull tbg & install pmp shoe, pull & retire 5-1/2
heatstring & run pmp & rods. MI&RU CWS #66. RU hot oil
unit & flushed tbg w/40 bbls diesel & 35 bbls 160 deg
prod wtr; well on vac. RD hot oil unit. Installed 2-7/8
BPV in tbg hanger, removed wellhead & installed BOP's.
Removed 2-7/8 BPV. Released from pkr & pulled 9700'
2-7/8 tbg. Made up 5000# string valve to tbg. Shut &
locked pipe rams on BOP's & SD for night.

APR 20 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,800. Fin'd pull'g 2-7/8 tbg. Set 5-1/2
BPV in 5-1/2" heat string. Removed BOP's & 2-7/8 tbg
hanger spool. Set BOP's & removed BPV from heat string.
Pulled 71 jts (3000') K55, 14#, 5-1/2 heat string. Removed
BOP's & 10 x 10 spool. Set 10 x 5 tbg hanger spool & BOP's.
Ran 29' prod tube, Bkr seal assembly, on-off tool, 1 6'
perf'd sub, 1 jt 2-7/8 EUE 8rd tbg, 1 Otis positive blank
plug, 1 jt 3-1/2 CS hydril, 1 6' perf'd sub, 1 Axelson
pmp, seat'g nip & 20 jts 2-7/8 EUE 8rd tbg. Made up to
tbg 1 5000# 2-7/8 string valve. Locked pipe rams & SD
for night.

APR 21 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,800. Well on vac. Ran 10,000' 2-7/8
tbg. Top of Axelson seat'g nip @ 10,047. Sanded tbg
w/5000# tension. Ran Axelson std'g valve on seat'g nip &
press'd tbg to 3000#; tbg bled down to 1000# in 15 mins.
Press'd tbg 4 times w/same results. Pulled valve, redressed
w/new cups & reran. Press'd to 3000# & let set for 1 hr;
press bled from 3000# to 2950#. Tbg ok. Pulled valve.
SD overnight.

APR 22 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,800. Well on vac. Set BPV in tbg,
removed BOP's & installed wellhead pmp'g equip. Removed
BPV & PU Axelson 1-3/4 pmp. Ran 10,100' of Electra "E"
rods w/plastic scrapers on 7/8" & 1" rods. Spaced out &
installed liner & polished rods. Clamped off polished rods.
SD for night.

APR 23 1976

Shell-Broadhead 1-32B5
(Reperf & Restim)

TD 11,820. PB 11,800. Fin'd down hole pmp installation.
Released CWS #66 4/23.
FINAL REPORT

APR 26 1976

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 330
ISSUED 10/10/80

WELL: UTE 1-32B5
LABEL: FIRST REPORT
AFE: 592567
FOREMAN: K. J. DESHOTEL
RIG: WOW # 17
OBJECTIVE: CLEAN OUT-PERFORATE-ACIDIZE-AND RETURN TO PROD.
AUTH. AMNT: 127000
DAILY COST: 3350
CUM COST: 3350
DATE: 7-18 AND 7-19 AND 7-20 AND 7-21-80
ACTIVITY: 7-18-80 STATUS: MOVE TO LOCATION AND RIG UP.
02 7-18-80 ACTIVITY: FIRST REPORT ON THIS LOCATION. AFE
03 592567 PROVIDES FUNDS TO CLEAN OUT-PERFORATE-ACIDIZE
04 AND RETURN WELL TO PROD. TD -11800 FT. PBTD-11785 FT.
05 MOVE FROM 1-24B4 TO 1-32B5 LOCATION AND RIG UP. S.D.O.N.
06 7-19-80 STATUS: PULL PRODUCTION EQUIPMENT
07 7-19-80 ACTIVITY: REMOVED WELLHEAD PUMPING EQUIPMENT
08 UNSEATED PUMP-PUMPED 20 BBLs. DIESEL AND 100 BBLs.
09 PRODUCED WTR. DOWN TBG. PULLED 16 1 IN. RODS PUMP OR
10 RODS HUNG UP. PUMPED 200 BBLs. HOT PRODUCED WTR. DOWN
11 CSG. PULLED 15 1 IN. RODS PUMP OR RODS HUNG UP. PULLED
12 A TOTAL OF 31 1 IN. RODS. S.D.O.N.
13 7-20-80 STATUS: SHUT DOWN
14 7-21-80 STATUS: PULL PROD. EQUIPMENT

LABEL: -----
DAILY COST: 3650
CUM COST: 10150
DATE: 7-21 AND 7-22-80
ACTIVITY: 7-21-80 STATUS: PULL PRODUCTION EQUIPMENT
02 7-21-80 ACTIVITY: PULLED 93 1 IN. RODS AND 20 7/8 IN.
03 RODS PUMP HUNG UP. TRIED PUMPING DOWN TBG.-TBG. PRESSURED
04 UP. TRIED PUMPING DOWN 1 IN. SIDE STRING- 1 IN.
05 STRING PLUGGED. HOOK UP TO CSG. AND PUMP 200 BBLs.
06 HOT WTR. PUMP CAME FREE. FINISHED PULLING AND LAYING
07 DOWN RODS AND PUMP. INSTALLED BOPS STARTED PULLING AND
08 LAYING DOWN 1 IN. TBG. PULLED 30 JTS. SHUT DOWN
09 GREGORY TODD FLOOR HAND SMASHED LITTLE FINGER ON LEFT
11 HAND AT 6:30 P.M. 7-21-80. RIG #17 WAS LAYING DOWN 1
12 IN TBG. WHEN TODD GOT HIS FINGER CAUGHT BETWEEN TBG.
13 AND ELEVATORS.

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 330
ISSUED 10/10/80

14 7-22-80 STATUS: PULL PRODUCTION EQUIPMENT

LABEL: -----
DAILY COST: 3350
CUM COST: 13500
DATE: 7-22 AND 23-80
ACTIVITY: FINISHED PULLING AND LAYING DOWN 1 IN. TBG. STRING.
02 PULLED A TOTAL OF 152 JTS. ATTEMPTED TO RELEASE
03 7 IN. BAKER TBG. ANCHOR. NO MOVEMENT IN TBG.
04 PUMPED 400 BARRELS OF HOT PRODUCED WATER DOWN TBG.
05 AND CIRCULATED HOLE AND RECOVERED 250 BARRELS OIL.
06-- RELEASED 7 IN. TBG. ANCHOR AND POOH WITH 4600 FT.
07 OF TBG. WELL STARTED FLOWING. SHUTDOWN RIG
08 OPERATIONS. TONY RITTER RELIEF OPERATOR GOT BROKEN
09-- NOSE AT 2:00 P.M. TONY RITTER AND GLEN TODD WERE
10-- WORKING ON RIG # 17 MUD PUMP WHEN TODD STRUCK
11-- RITTER ON THE NOSE WITH HIS HEAD.
12
13 7-23-80 - RUN MILL TO CLEAN OUT.

LABEL: -----
DAILY COST: 3150
CUM COST: 16650
DATE: 7-23-80
ACTIVITY: PRESSURED UP ON TBG. TO 3500 PSI BEFORE PUMPING
02-- THROUGH PLUG. PUMPED 300 BBLs. WATER AND RECOVERED
03 100 BBLs. OIL. POOH WITH TBG. AND 7 IN. TBG. ANCHOR.
04 MAKE UP 4 1/8 IN. O.D. X 2 IN. I.D. TBG. MILL AND
05 RIH TO 10300 FT. STARTED PICKING UP TBG. RIH AND
06-- TAG AT 11758 FT. DID NOT ATTEMPT TO CLEAN OUT.
07 PBTD AT 11785 FT. BOTTOM OF OLD PERF. AT 11725 FT.
08-- BOTTOM OF NEW PERF. TO BE AT 11603 FT. S.D.R.O.
09
10 7-24-80 - PERFORATE.

LABEL: -----
DAILY COST: 3350
CUM COST: 20000
DATE: 7-24-80
ACTIVITY: PUMPED 650 BBLs. CLEAN PRODUCED WATER AND CIRCULATED
02 HOLE CLEAN. LAYED DOWN 1300 FT. OF TBG. AND POOH
03 WITH REMAINDER OF TBG. AND TBG. MILL. MIRU OWP

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 330
ISSUED 10/10/80

04 AND MADE A TOTAL OF 4 PERFORATING RUNS THIS
 05 DATE. CHECKED PBD ON 1ST. RUN PBD AT 11785 FT.
 06 FLUID LEVEL ON 1ST. RUN AT 120 FT. 2ND. RUN FULL.
 07 3RD. RUN FULL. 4TH. RUN FULL. NO PRESSURE BEFORE
 08 AND AFTER PERFORATING. PERFORATED THIS DATE 89
 09 SELECTIONS 267 HOLES FROM 11603 FT. TO 10152 FT.
 10 USING 3 1/8 IN. O.D. CSG. GUN 14.0 GRAM CHARGES.
 11 3 SPF 120 DEGREE PHASING.
 12
 13 7-25-80 - PERFORATE AND PREPARE TO ACIDIZE.

LABEL: -----
 DAILY COST: 30015
 CUM COST: 50015
 DATE: 7-25 AND 7-26-80
 ACTIVITY: 7-25-80 STATUS: PERFORATE PREPARE TO ACIDIZE
 02 7-25-80 ACTIVITY: MADE A TOTAL OF 5 PERFORATING RUNS THIS
 03 DATE USING 4 IN. CSG GUNS 19.0 GRAM CHARGES 3 SPF 120 DEGREE
 04 PHASING. HOLE WAS FULL ON ALL RUNS NO PRESSURE BEFORE AND
 05 AFTER PERFORATING. PERFORATED FROM 10144 FT. TO 9374 FT.
 06 49 SELECTIONS 147 HOLES. IN 2 DAYS OF PERFORATING-
 07 PERFORATED 138 SELECTIONS 414 SHOTS FROM 11603 FT. TO
 08 9374 FT. RIG DOWN O.W.P. MAKE UP 7 IN. BAKER R.B.P.
 09 RUN IN HOLE AND SET B.P. AT 1000 FT. PLUS OR MINUS.
 10 REMOVED BOPS AND 10 IN. X 6 IN. DUAL STRING HANGER.
 11 INSTALL ED 10 IN. X 6 IN. 5000 # TBG. SPOOL AND BOPS.
 12 RIH TO 1000 FT. LATCH B.P. AND POOH. MAKE UP BAKER 7 IN.
 13 FULL BORE PACKER AND RIH TO 6000 FT. PLUS OR MINUS.
 14 S.O.O.N.
 15 7-26-80 STATUS: ACIDIZE

LABEL: -----
 DAILY COST: 51695
 CUM COST: 101710
 DATE: 7-26 AND 7-27 AND 7-28-80
 ACTIVITY: 7-26-80 STATUS: ACIDIZE
 02 7-26-80 ACTIVITY: RIH TO 9300 FT. PLUS OR MINUS AND
 03 SET 7 IN. FULLBORE PKR. LAND TBG. WITH 16000 #
 04 TENSION. PRESSURE TEST TBG. TO 6000 PSI TBG. O.K.
 05 PRESSURE TEST CSG. TO 1500 PSI CSG. HAS SMALL LEAK.
 06 MIRU B.J. HUGHES HELD SAFETY MEETING PRESSURE TEST
 07 WELLHEAD AND LINES. ACIDIZE WELL: ISP= 2600 5

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 330
ISSUED 10/10/80

08 IN.-2000 10 MIN.- 1980 15 MIN.-1960 20 MIN.-1940
 09 MAX. PSI-6200 AVER. PSI -5400 MINIMUM PSI- 4300 MAX.
 10 RATE -18.5 AVER. RATE-15.5 MINIMUM RATE-13.5 TOTAL
 11 ACID -1167 BBLs. FLUSH WATER-120 BBLs. TOTAL FLUIDS-
 12 1287 BBLs. MAX CSG.-2200 PSI TOTAL BALLS-667 TOTAL
 13 FLAKES-13000 LBS. RIG DOWN B.J. HUGHES MIRU OWP
 14 RUN G.R. LOG COULD NOT GET BELOW 11070 FT. EVERY
 15 THING FROM 10168 FT. TO 11603 FT. TREATED 75%
 16 EVERYTHING FROM 10152 FT. TO 9374 FT. TREATED 95%
 17 S.D.R.D.
 18 7-27-80 STATUS: SHUT DOWN
 19 7-28-80 STATUS: FINISH G.R. LOG RUN PROD. EQUIP.

LABEL: -----
 DAILY COST: 9599
 CUM COST: 111309
 DATE: 7-28 AND 7-29-80
 ACTIVITY: 7-28-80 STATUS: FLOWING WELL TO TREATER--
 02 7-28-80 ACTIVITY: WELLHEAD S.I. PSI 800# RIH WITH O.W.P.
 03 COULD NOT GET BELOW 11100 FT. POOH RIG DOWN OWP
 04 HOOK UP WELLHEAD TO FLOW LINE OPEN WELL TO TREATER. WELL
 05 FLOWING TO TREATER ON 24/64 TBG. CHOKE 550 PSI TBG.
 06 FLOW WELL TO BATTERY OVER NIGHT. S.D.O.N.
 07 7-29-80 STATUS: IF WELL CONTINUES TO FLOW RIG DOWN
 08 AND MOVE. 22 HR. TEST 271 OIL-458 WTR.-385 MCF GAS
 09 400 TBG. PSI-24/64 CHOKE

LABEL: -----
 DAILY COST: 1300
 CUM COST: 112609
 DATE: 7-29-80
 ACTIVITY: 7-29-80 STATUS: RIG DOWN AND MOVE
 02 7-29-80 ACTIVITY: RIG DOWN AND MOVE EQUIPMENT. WELL
 03 FLOWING TO TREATER. WELL TEST FOR 21 HRS. OIL-236
 04 WTR 169 MCF GAS-269 TBG PSI-100 30/64 TBG CHOKE.
 05 TURN WELL OVER TO PRODUCTION.

LABEL: -----
 CUM COST: 112609
 DATE: 7-31-80
 ACTIVITY: IN 24 HRS. IT PRODUCED 213 OIL- 152 WTR.- 290 MCF GAS
 02 100# TBG PSI- 30/64 CHOKE

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 330
ISSUED 10/10/80

LABEL: -----
CUM COST: 112609
DATE: 8-1-80
ACTIVITY: IN 24 HRS. 211 OIL- 148 WTR.- 308 MCF GAS-30/64 CHOKE -100 TB

LABEL: FINAL REPORT
DAILY COST: 1300
CUM COST: 112609
DATE: 8-2 A D 8-4-80
ACTIVITY: 8-2-80 IN 24 HRS. 210 OIL- 155 WTR- 308 MCF- 150 TBG.
02 30/64 CHOKE.
03 8-4-80 FINAL REPORT IN 24 HRS. IT PROD. THE FOLLOWING
04 172 OIL- 92 WTR.- 265 MCF GAS- 50 TBG.- 30/64 CHOKE
05 THE RIG MOVED OFF ON 7-29-80.

Shell Oil Company



P.O. Box 831
Houston, Texas 77001

December 30, 1983

Mr. Norm Stout
State of Utah
Natural Resources
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, UT 84114

Dear Mr. Stout:

TRANSFER OF OWNERSHIP AND ASSETS
FROM SHELL OIL COMPANY TO
SHELL WESTERN E&P INC.
STATE OF UTAH

In accordance with our recent conversation, the purpose of this letter is to reduce to writing that Shell Western E&P Inc. ("SWEPI"), a subsidiary of Shell Oil Company, has been formed. Shell Western E&P Inc. is a Delaware corporation with its offices located at 200 North Dairy Ashford Road in Houston, Texas. The mailing address is P. O. Box 831, Houston, TX 77001.

Effective January 1, 1984, Shell Oil Company will transfer portions of its oil and gas operations to Shell Western E&P Inc. and Shell Western E&P Inc. will assume all of the rights, interests, obligations and duties which Shell Oil Company currently has as a result of its exploration, development and production operations in the State of Utah.

As you are aware, Shell Oil Company is currently the holder of various permits and agency authorizations. In view of the fact that Shell Western E&P Inc. will assume all of the liabilities and obligations of Shell Oil Company's exploration and production activities within the state, we respectfully request that you transfer all permits or other authorizations from Shell Oil Company to Shell Western E&P Inc., effective January 1, 1984.

To support this request, a copy of the power of attorney appointing the undersigned as Attorney-in-Fact for Shell Western E&P Inc. is enclosed. On behalf of Shell Western E&P Inc., enclosed are recently issued Bond No. Shell 1835 and Bond No. Shell 1841. The bonds were issued by the Insurance Company of North America. In the near future, I shall request that the existing Shell Oil Company bonds be released.

It is my understanding, pursuant to our prior discussion, that this letter will comply with your requirement regarding the change in the name of the permittee.

Sufficient copies of this letter are being provided to your office so that a copy can be placed in each appropriate file. A listing of active wells is enclosed. Thank you in advance for your cooperation in this matter.

Yours very truly,

G. M. Jobe

G. M. Jobe
Administrator, Regulatory-Permits
Rocky Mountain Division
Western E&P Operations

GMJ:beb

Enclosures

MONTHLY OIL AND GAS PRODUCTION REPORT

Duchesne

Operator name and address:

UTEX OIL CO.
% SHELL WESTERN E&P INC.PO BOX 576
HOUSTON TX 77001
ATTN: P.T. KENT, OIL ACCT.Operator name
change

Utah Account No. N0840

Report Period (Month/Year) 8 / 84

Amended Report ☐

Well Name	Entity	Location	Producing Zone	Days Oper	Production Volume Oil (BBL)	Gas (MSCF)	Water (BBL)
MURDOCK 1-34B5		02S 05W 34	WSTC	31	1800	1010	381
JENKINS 1-1B3		02S 03W 1	GR-WS	31	1719	2905	8117
YOUNG ETAL 1-29B4		02S 04W 29	WSTC	31	768	0	4270
ROADHEAD 1-32B5		02S 05W 32	WSTC	18	219	0	70
UTE 1-28B4		02S 04W 28	WSTC	30	486	1169	3601
UTE TRBL 1-35A3		01S 03W 35	WSTC	31	2846	2125	5066
MURDOCK 1-25B5		02S 05W 25	WSTC	20	341	0	1312
HANSON TRUST 1-08B3		02S 03W 8	GR-WS	0	0	0	0
BURTON 1-16B5		02S 05W 16	WSTC	19	964	2585	5166
DOYLE 1-10B5		02S 03W 10	WSTC	5	224	662	421
MEAGHER EST 1-04B2		02S 02W 4	WSTC	31	1818	3214	3937
SHELL OIL 1-28B5		02S 05W 28	GR-WS	0	0	0	0
MEAGHER TRBL 1-09B2		02S 02W 9	WSTC	31	945	909	3214
TOTAL					12130	14629	35535

E.T. - 2

TOTAL

Comments (attach separate sheet if necessary)

I have reviewed this report and certify the information to be accurate and complete.

Date

9-28-84

Authorized signature

Telephone

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SMIT IN TRIPLICATE 010945A
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR ANR Limited Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Box 749, Denver, Colorado 80201-		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any requirements.* See also space 17 below.) At surface See attached list		8. FARM OR LEASE NAME Broadhead
14. PERMIT NO. 43-013-30221		9. WELL NO. 1-3235
15. ELEVATIONS (Show whether OP, ST, OR, etc.)		10. FIELD AND POOL, OR WILDCAT
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 32 T. 5 S. 5 W.
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*		12. COUNTY OR PARISH 13. STATE Muskogee

RECEIVED
DEC 31 1986

DIVISION OF
OIL, GAS & MINING

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐
☐
☐
☐

PULL OR ALTER CASING

☐
☐
☐
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANN

(Other) - Change Operator

☒

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐
☐
☐
☐

REPAIRING WELL

☐
☐
☐
☐

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

ANR Limited has been elected successor Operator to Utex Oil Company on the oil wells described on the attached Exhibit "A".

18. I hereby certify that the foregoing is true and correct

SIGNED

on K. Nelson

TITLE

Dist. Land Mgr.

DATE

12/24/86

(This space for Federal or State office use)

APPROVED BY

TITLE

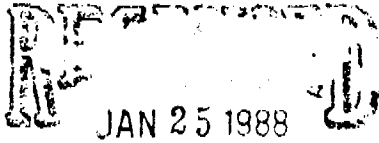
DATE

CONDITIONS OF APPROVAL, IF ANY:



ANR Production Company
a subsidiary of The Coastal Corporation

612712



DIVISION OF
OIL, GAS & MINING

January 19, 1988

Natural Resources
Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attention: Ms. Lisha Romero

This letter includes the information you requested on January 12, 1988 concerning the recent merger of ANR Limited, Inc. into ANR Production Company. Effective December 31, 1987 (December, 1987 Production), ANR Limited, Inc. merged into ANR Production Company; and henceforth, will continue operations as ANR Production Company.

N0675 ←

ANR Production Company will begin reporting and remitting the Utah Conservation and Occupation Taxes effective December, 1987 production for leases previously reported by ANR Limited, Inc. (Utah Account No. N-7245). ANR Production Company will use the new Utah Account No. N-0675, as assigned by the State of Utah.

Please contact me at (713) 877-6167 if I can answer any questions on this matter.

Very truly yours,

Roger W. Sparks
Roger W. Sparks
Manager, Crude Revenue Accounting

*The computer shows the
ANR Limited wells listed
under account no. N0235.
DTS
1-26-88*

CC: AWS

CTE:mmw

Lisha,

*I don't see any problem w/this.
I gave a copy to Arlene so
she could check on the bond
situation. She didn't think this
would affect their bond as the
bond is set up for Coastal
and its subsidiaries (ANR, etc.)
No Entity Number changes are
necessary. DTS 1-26-88*



UTAH
NATURAL RESOURCES
Oil, Gas & Mining

355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut
84180-1203. • (801-538-5340)

DOGM 56-64-2
an equal opportunity employer

Page 6 of 10

MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

• ANR LIMITED INC./COASTAL
P O BOX 749
DENVER CO 80201 0749
ATTN: RANDY WAHL

Utah Account No. N0235

Report Period (Month/Year) 11 / 87

Amended Report ☐

Well Name			Producing Zone	Days Oper	Production Volume		
API Number	Entity	Location			Oil (BBL)	Gas (MSCF)	Water (BBL)
JENKINS 1-1B3			GR-WS				
4301330175	01790	02S 03W 1					
YOUNG ETAL 1-29B4			WSTC				
4301330246	01791	02S 04W 29					
JENKINS #2-1B3			WSTC				
4301331117	01792	02S 03W 1					
BROADHEAD 1-32B5			WSTC				
4301330221	01795	02S 05W 32					
UTE 1-28B4			WSTC				
4301330242	01796	02S 04W 28					
UTE TRIBAL 1-35A3			WSTC				
4301330181	01800	01S 03W 35					
MURDOCK 1-25B5			WSTC				
4301330247	01801	02S 05W 25					
HANSON TRUST 1-08B3			GR-WS				
4301330201	01805	02S 03W 8					
BURTON 1-16B5			WSTC				
4301330238	01806	02S 05W 16					
DOYLE 1-10B3			GR-WS				
4301330187	01810	02S 03W 10					
SHELL UTE 1-28B5			GR-WS				
4301330179	01815	02S 05W 28					
RUDY 1-11B3			WSTC				
4301330204	01820	02S 03W 11					
SHELL UTE 1-36A3			WSTC				
4301330263	01821	01S 03W 36					
TOTAL							

Comments (attach separate sheet if necessary)

I have reviewed this report and certify the information to be accurate and complete.

Date _____

Authorized signature _____

Telephone _____

PLEASE COMPLETE FORMS IN BLACK INK

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Patented
2. NAME OF OPERATOR ANR Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 749, Denver, CO 80201-0749		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2348' FNL & 1654' FEL Section 32		8. FARM OR LEASE NAME Broadhead
14. PERMIT NO. 43-013-30221		9. WELL NO. 1-32B5
15. ELEVATIONS (Show whether of, to, or, etc.) 6133' KB		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA SW/NE Section 32, T2S, R5W
		12. COUNTY OR PARISH 13. STATE Duchesne Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANE <input type="checkbox"/>

(Other) Repair casing leak and acidize X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>

(Other) _____
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see attached intended procedure to repair casing leaks,
acidize the Wasatch interval and rerun the production equipment.
The well will then be returned to production.

18. I hereby certify that the foregoing is true and correct

SIGNED Brenda W. Swank

TITLE Regulatory Analyst

DATE June 27, 1989

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____
APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

*See Instructions on Reverse Side

WASATCH WORKOVER

BROADHEAD #1-32B5

Section 32-T2S-R5W
Altamont Field
Duchesne County, Utah

May 22, 1989

Well Data

Location: 2348' FNL & 1654' FEL
Elevation: 6133' KB; 6115' GL
TD: 11,820'
PBTD: 11,785'
Casing: 13-3/8", 68#, K-55 set @ 336'
9-5/8", 40#, K-55 set @ 6519'
7", 26#, N-80 & S-95 set @ 10,333'
5", 18#, N-80 set @ 10,171'-11,817'
Tubing: 2-7/8", 6.5#, N-80, EUE 8rd set @ 9528' w/7" Surlok packer

Tubular Detail:

<u>Description</u>	<u>ID</u>	<u>Drift</u>	<u>Capacity</u> (B/F)	<u>Burst</u> (psi)	<u>Collapse</u> (psi)
7", 26#, N-80	6.276"	6.151"	.0382	7,240	5,410
7", 26#, S-95	6.276"	6.151"	.0382	8,600	7,800
5", 18#, N-80	4.276"	4.151"	.0177	10,140	10,490
2-7/8", 6.5#, N-80	2.441"	2.347"	.00579	10,570	11,160

Procedure

1. MIRU service rig. Kill well. ND wellhead and NU BOP. POOH with production equipment.
2. Clean out 7" casing and 5" liner to $\pm 11,750'$.
3. Repair casing leaks at 6507' in casing patch. Pressure test casing to 2500 psi after repairs are completed. (PERF 4" hole @ 6520'. ATTEMPT TO CIRC. CUT TO SURF, IF POSSIBLE.) DRILL OUT EXCESS CMP.
4. PU 7" x 3-1/2" packer on 3-1/2" tubing and TIH to $\pm 9200'$ and set packer. Test tubing to 9000 psi on TIH.
5. Acidize Wasatch perfs 9,374'-11,725' with 21,000 gals 15% HCl with additives and 1400 l.l S.G. ball sealers.
 - A. Precede acid with 250 bbls water with 10 gals per 1000 scale inhibitor and 500 gals xylene.
 - B. All water to contain 3% KCl.
 - C. Acidize in 7 stages of 3000 gals each with diverter stages of 1000 gals gelled salt water with 1/2#/gal each benzoic acid flakes and rock salt.
 - D. Acid to be tagged with follow-up log to determine diversion.
 - E. Maximum pumping pressure to 9000 psi.
6. Flow back acid load. Run production log if well continues to flow. Unseat packer and POOH with tubing and packer.
7. Rerun production equipment. Return well to production.

VEG:tmr

Broadhead 1-3235
 Section 32, T2S, R5W
 Alta mont Field
 Duchesne County, Utah.

13 $\frac{3}{8}$ " 68# K-55
 set @ 336'

9 $\frac{5}{8}$ " 40# K-55
 set @ 6519'

Top of Liner 10,171'
 7" 26# N-80 & S-95
 set @ 10,333'

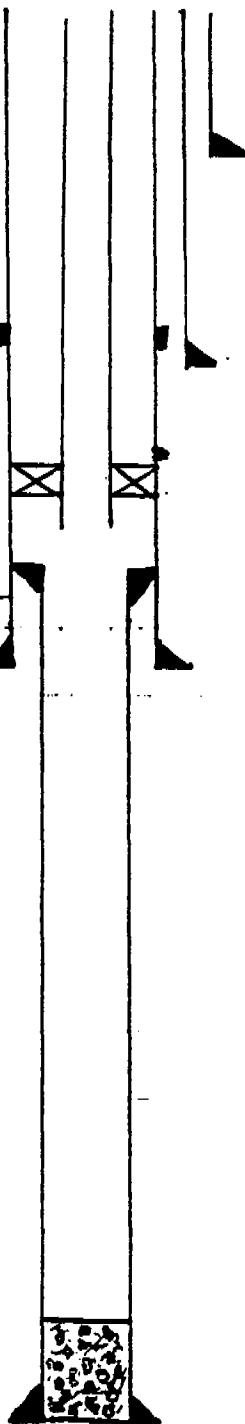
Bowen Csg patch @ 6507'

7" sunlok @ 9528'

Wasatch Perfs
 9374 - 11725'
 Total 693 Holes

5" 18# N-80 set
 @ 11,817'

PBTD - 11,785'
 TD - 11,820'



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved:
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug wells in oil and gas reserves.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. <i>pow</i> Patented
2. NAME OF OPERATOR ANR Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 749, Denver, Colorado 80201-0749		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2340' FNL & 1654' FEL (SWNE) Section 32		8. FARM OR LEASE NAME Broadhead
14. PERMIT NO. 43-013-30221		9. WELL NO. 1-32B5
15. ELEVATIONS (Show whether OF, BT, GR, etc.) 6133' KB		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., N., OR S.E. AND SURVEY OR AREA Section 32, T2S-R5W
		12. COUNTY OR PARISH 13. STATE Duchesne Utah

NOV 15 1989

ON FILE OF
OIL, GAS & MINING

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATES SHUT-OFF

FRACURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Repair Casing and Acidize

(Note: Report results of multiple completion or Well Completion or Recompletion Report and Log form.)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

See attached chronological report repairing casing leak and acidizing subject well.

OIL AND GAS	
DRN	RUF
JRB	CLH
DTS	SLS
1-TAS	
2-	MICROFILM
3-	FILE

18. I hereby certify that the foregoing is true and correct

SIGNED Brenda W. Swank TITLE Regulatory Analyst

DATE November 13, 1989

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

Page 1

BROADHEAD #1-32B5 (REPAIR CSG LEAK & ACDZ)
ALTAMONT/BLUEBELL FIELD
DUCHESE COUNTY, UTAH
WI: 52.6050% ANR AFE: 62772
TD: 11,820'
CSG: 5" LINER @ 10,171'-11,817'
PERFS: 9,374'-11,725' (WASATCH)
CWC(MS): \$117.3

9/15/89 POOH w/rods. MIRU.
DC: \$1,314 TC: \$1,314

9/18/89 POOH w/tbg. POOH w/rods & pump. Start POOH w/tbg.
DC: \$3,382 TC: \$4,696

9/19/89 RIH w/7" csg scraper. Fin POOH w/tbg & prod equip. Start RIH w/7" csg
scraper.
DC: \$2,771 TC: \$7,467

9/20/89 PU & RIH w/7" csg scraper.
DC: \$2,110 TC: \$9,577

9/21/89 CO 5" liner. Tag in top @ 10,171'. Circ hole clean. LD 7" csg scraper.
PU & RIH w/4-1/8" mill to in top.
DC: \$1,851 TC: \$11,428

9/22/89 POOH w/BHA. SITP 50#. RIH w/4-1/8" mill & BHA on 2-7/8" tbg to 10,300'.
Mill hanging on csg collars. RIH to 11,714' & tag fill. CO 5" liner to
11,743'. Circ hole clean. Start POOH w/4-1/8" mill & BHA to 10,027'.
DC: \$2,287 TC: \$13,715

9/25/89 Isolate csg leaks. Fin POOH w/4-1/8" mill & BHA on 2-7/8" x 2-3/8" tbg.
Dwn 5 hrs for rig repair. RIH w/7" RBP & pkr on 2-7/8" tbg. Set RBP @
9350'. Unable to test. Reset @ 9330'. Unable to test.
DC: \$5,121 TC: \$18,836

9/26/89 Prep to run RBP & pkr. Reset RBP @ 8900'. Unable to test. POOH w/7" pkr
& RBP on 2-7/8" tbg. RBP full of debris. Run METT csg insp log from
9300'-6300'.
DC: \$6,188 TC: \$25,024

9/27/89 POOH w/7" pkr. RIH w/7" RBP & pkr on 2-7/8" tbg. Set RBP @ 9230'. Press
tst to 2000#. OK. Reset pkr @ 6551' & press tst to 2000#. OK. Reset pkr
@ 6489'. Press tst to 2000#. OK. 7" x 9-5/8" csg had 1650#. Attempt to
est inj across csg patch @ 3500#. Unable. RBP on pkr. RIH w/pkr & RBP &
reset RBP @ 9230#. Press tst to 2000#. OK. Reset pkr @ 6489' & 6551' to
retest. OK. Est inj @ 2 BPM @ 2000#. POOH to 4230'.
DC: \$4,980 TC: \$30,004

9/28/89 Prep to cmt 7" csg. Fin POOH w/7" pkr. RIH w/dump bailer & spot 2 sxs sd
on RBP @ 9230'. Perf sqz holes @ 6530' w/4 SPF, 90" phasing. Circ hole
clean thru 7" x 9-5/8" csg. ND BOPS. NU cmt head.
DC: \$5,291 TC: \$35,295

9/29/89 Prep to drill out cmt. Circ. Cmt 7" csg w/300 sx Cl "G". Cmt to surf.
DC: \$15,706 TC: \$51,001

10/2/89 Press tst cmt job. WIH w/bit. Tag cmt @ 6395'. Cleaned out soft cmt to
6530'. TIH to 6550'. Circ hole clean.
DC: \$3,791 TC: \$54,792

10/3/89 Prep to sqz. Press ~~tst sqz~~. Leaked 1 BPM @ 1600 psi. RIH w/pkr & set @
6400'. Swab dry. Wait 1 hr. ~~Swab 1/2 BW. PREP TO RESQZ~~.
DC: \$2,739 TC: \$57,531

10/4/89 POOH w/tbg & pkr. Set pkr @ 5470'. Establish inj rate of 2 BPM @ 2400
psi. Pmp 200 sxs cmt slurry. Sqz to 3000 psi. Rls pkr & rev out. Reset
pkr & ~~press tst csg to 2000 psi & tbg to 3000 psi~~.
DC: \$7,131 TC: \$64,662

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

BROADHEAD #1-32B5 (REPAIR CSG LEAK & ACDZ)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH

Page 2

10/5/89 Cont DO cmt. RIH w/6-1/8" drag bit. Tag cmt @ 6113'. CO cmt to 6430'.
Cmt getting softer. Press tst to 1500 psi. Held.
DC: \$2,575 TC: \$67,237

10/6/89 POOH w/RBP. CO 7" csg from 6430' to 6530'. Circ hole clean. Press tst
csg sqz to 2000#. OK. POOH w/6-1/8" bit on 2-7/8" tbg. RIH w/retr hd on
2-7/8" tbg to RBP @ 9230'. Circ sand off RBP & rel RBP. Start POOH w/7"
RBP on 2-7/8" tbg.
DC: \$4,191 TC: \$71,428

10/9/89 Prep to set pkr. Fin POOH w/7" RBP on 2-7/8" tbg. Start RIH w/7" pkr on
3-1/2" tbg.
DC: \$3,472 TC: \$74,900

10/10/89 Swab back load volume. Fin RIH w/7" pkr on 3-1/2" tbg. Set pkr @ 9228'.
Press tst 7" csg to 2000#. OK. Acdz Wasatch form w/21,000 gals 15% HCl
w/add & 1400 - 1.1 B.S. + BAF & rock salt diverters. ATP 6800#, AIR 18
BPM, ISIP 2100#, 15 min 1290#. 1010 BLWTBR. Good diversion.
DC: \$44,531 TC: \$119,431

10/11/89 Prep to run prism log. SITP vac. RU swab equip. IFL @ 2400'. Swbd 38
runs. Rec'd 332 BLW. FFL @ 3200'. 678 BLWTBR.
DC: \$3,057 TC: \$122,488

10/12/89 POOH w/7" pkr. SITP 200#. RIH w/prism log from 11,737'-9,150'. Rel 7"
pk. Start POOH w/7" pkr on 3-1/2" tbg.
DC: \$9,372 TC: \$131,860

10/13/89 Prep to place well on prod. SITP 50#. POOH w/7" pkr on 3-1/2" tbg. RIH
w/pump BHA on 2-7/8" tbg. Set IAC @ 9572'. Land w/20,000# tension. Start
RIH w/86 tapered rod string.
DC: \$3,571 TC: \$135,431

10/16/89 Place well on rod prod. SITP 100#. Fin RIH w/1" rods. LD 1" x 7/8" rod
section w/metal guides. Start RIH w/2" x 1-3/4" x 26' RHBC rod pump on 86
tapered rod string.
DC: \$2,076 TC: \$137,507

10/17/89 SITP 100#. Fin RIH w/rod pump on 86 tapered rod string. Space out. Press
test tbg to 1500#. OK. Hang well off. RDSU.
DC: \$20,400 TC: \$157,907

10/17/89 Pmpd 148 BO, 383 BW, 53 MCF/21 hrs.

10/18/89 Pmpd 1 BO, 432 BW, 22 MCF.

10/19/89 Pmpd 11 BO, 418 BW, 22 MCF.

10/20/89 Pmpd 31 BO, 437 BW, 49 MCF.

10/21/89 Pmpd 47 BO, 351 BW, 48 MCF.

10/22/89 Pmpd 54 BO, 313 BW, 48 MCF.

10/23/89 Pmpd 54 BO, 332 BW, 42 MCF.

Before on rod pmp avg'd: 0 BOPD, 0 BWPD, 0 MCFPD. Final report.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
ANR Production Company

3. Address and Telephone No.
P.O. Box 749 Denver, CO 80201-0749 (303) 573-4476

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2348' FNL & 1654' FEL (SW/NE)
Section 32, T2S-R5W

5. Lease Designation and Serial No.

Patented

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Broadhead 1-32B5

9. API Well No.

43-013-30221

10. Field and Pool, or Exploratory Area

Altamont

11. County or Parish, State

Duchesne County, Utah

CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other Fish Tubing & Rods

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see the attached chronological history for the procedure performed to fish the tubing and rods in the above referenced well.

RECEIVED

JAN 04 1993

DIVISION OF
OIL GAS & MINING

RECEIVED

JAN 04 1993

DIVISION OF
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed [Signature] Title Regulatory Analyst

Date 12/29/92

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

PAGE 1

BROADHEAD #1-3285 (FISH TBG & RODS)
ALTAMONT/BLUEBELL FIELD
DUCHESE COUNTY, UTAH
WI: 75.000% ANR AFE: 64207
TD: 11,820' PBD: 11,783'
CSG: 5" LINER @ 10,171'-11,817'
PERFS: 9,374'-11,725' (WASATCH)
CWC(M\$): 108.1

- 11/9/92 POOH w/tbg. RU rig & rod equip. RU hot oiler & flush rods w/30 bbls 250 deg wtr. POOH w/rods. RD rod equip. RU tbg equip. ND WH. Put 4' tbg sub under hanger. NU BOP. Rls'd tbg anchor @ 6970'. POOH w/44 stds tbg. DC: \$3,374 TC: \$3,374
- 11/10/92 RIH w/mill. POOH w/68 stds tbg & BHA. RIH w/6-1/8" impression block & 112 stds tbg. Tagged fish @ 8903'. Set 8000# on fish. POOH w/tbg & impression block. Block showed half circle 5-1/2" across. SWI. DC: \$3,653 TC: \$7,027
- 11/11/92 Milling on fish. Bled 150 psi off well. Tally, PU & RIH w/6-1/8" skirted mill, 2 junk baskets, 8 sub & 4 - 4-3/4" DC's. RIH w/281 jts tbg. Tagged fish @ 8903'. Pmpd 250 BW down csg, well did not circ. Milled 2' off TOF. SWI. DC: \$6,099 TC: \$13,126
- 11/12/92 POOH w/tbg. Milled 4' off fish. POOH w/tbg & BHA. RIH w/impression block & tbg, tagged fish @ 8909'. Set 8000# on fish. POOH w/10 stds tbg. SDFN. DC: \$4,529 TC: \$17,655
- 11/13/92 RIH w/skirted mill. Bled 150 psi off well. POOH w/tbg & impression block. RIH w/5-3/4" overshot w/3-21/32" grapple, 28' overshot ext, BS, jars, 4 - 4-3/4" DC & tbg. Tagged fish @ 8909'. Work & rotate tbg, unable to get over fish. POOH w/tbg & BHA. DC: \$4,651 TC: \$22,306
- 11/14/92 POOH w/tbg. Bled 150 psi off well. RIH w/6-1/8" skirted mill, 2 junk baskets, BS, 4 - 4-3/4" DC's & tbg. Tagged fish @ 8909'. RU drlg equip. Milled 7' off top of fish (TOF @ 8916'). POOH, LD 1-jt tbg. DC: \$4,563 TC: \$26,869
- 11/16/92 POOH w/tbg. Bled 500 psi off well. POOH w/tbg & BHA. RIH w/5-3/4" overshot w/3-21/32" grapple, 28' overshot ext, BS, jars, 4 DC's & tbg. Tagged fish @ 8916'. Worked overshot over fish 2-1/2', unable to latch onto fish. POOH w/23 stds tbg. DC: \$4,176 TC: \$31,045
- 11/17/92 Milling over fish. Bled 100 psi off well. POOH w/tbg & BHA. Did not have fish. Order out & RIH with 6-1/8" x 3-21/32" shoe, 5' washpipe pup, 2 junk baskets, BS, 4 DC's & tbg. RU drlg equip, tagged fish @ 8916'. Milling on fish top. Unable to get over fish. DC: \$5,982 TC: \$37,027
- 11/18/92 RIH w/tbg. Bled 50 psi off well. Milled 5' over fish. POOH w/tbg & BHA. Had 6.5' of tbg. Fish stuck in WP. RIH w/6-1/8" impression block & 102 stds tbg. DC: \$4,922 TC: \$41,949
- 11/19/92 RIH w/WL impression block. Bled 50 psi off well. RIH w/tbg, tagged TOF @ 8922', set 8000# on impression block. POOH w/tbg & impression block (showed tbg jt). RIH w/5-3/4" overshot w/2-3/8" grapple, 3' ext, BS, jars, 4 DC's & tbg. Latched onto fish @ 8922'. Jarring on fish, setting jars off @ 52,000# over string weight. Unable to jar fish loose. DC: \$4,651 TC: \$46,600

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

BROADHEAD #1-32B5 (FISH TBG & RODS)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH
WI: 75.000% ANR AFE: 64207

PAGE 2

- 11/20/92 POOH w/tbg. Bled 100 psi off well. Jarred 52,000# over string weight, unable to jar fish loose. RU OWP. RIH w/1-7/8" impression block to PBGA @ 9484'. RIH w/1-13/16" jet cutter. Made cut @ 9478'. Jarred tbg loose. RD OWP. POOH w/91 stds tbg. SWI & SDFN @ 5:30 p.m.
DC: \$7,661 TC: \$54,261
- 11/21/92 Run impression block on sand line. Bled 80 psi off well. POOH w/tbg, fishing tools & fish (19 jts tbg & 20 ~ 3/4" rods). LD fish. Drain pump & lines.
DC: \$3,664 TC: \$57,925
- 11/23/92 RIH w/tbg. Bled 350 psi off well. RIH w/6-1/8" impression block, 1 std tbg on sand line, set down on fish top. POOH, block showed rod sticking up. RIH w/5-3/4" overshot mouse trap tool, 1-jt 5-3/4" WP, BS, jars, 4 DC's & 116 stds tbg. Carrier bearing on rig went out. SWI - removed bearing from rig.
DC: \$3,595 TC: \$61,520
- 11/24/92 RIH w/tbg. Repair rig. Bled 200 psi off well. RIH w/tbg, tagged fish @ 9425'. Worked fishing tool down over 41' of fish (rods). POOH w/tbg & BHA. Did not recover any fish. RIH w/6-1/8" shoe w/rod catch inside, 1-jt 5-1/2" WP, BS, jars, 4 DC's & 1 stand tbg.
DC: \$5,001 TC: \$66,521
- 11/25/92 RIH w/impression block on sand line. Bled 90 psi off well. RIH w/tbg, tagged fish @ 9435'. RU power swivel. Worked shoe down over fish to 9494' (acted like tbg anchor was moving down hole). RD power swivel. POOH w/tbg & BHA. LD WP & shoe (rec 40' of 1" rods & 16' of 3/4" rods).
DC: \$4,231 TC: \$70,752
- 11/30/92 POOH w/tbg. Bled 700 psi off well. RIH with 6-1/8" impression block on sand line. Set down on fish. POOH, block showed rod in center of hole. RIH w/Kelo socket, 1-jt WP, BS, jars, 4 DC's & tbg. Latched onto fish @ 9493'. POOH w/85 stds tbg (dragged up hole 20' off btm).
DC: \$5,617 TC: \$76,369
- 12/1/92 RD. POOH w/2-7/8" tbg and BHA. Recover 5' piece of 3/4" rod w/coupling in middle. Change in orders. LD fishing tools. Make up 2-7/8" solid plug w/collar on btm, 4' x 2-7/8" perf pup. RIH on 288 jts 2-7/8" tbg & land. ND BOPE, NU WH equip. RU to run rods. EOT @ 8990'. RIH w/98 - 7/8" & 94 - 1" rods. PU polish rod.
DC: \$16,095 TC: \$92,464
- 12/2/92 Prep AFE revision, RDMO. RD rig, load out equip. Cleanup location, prep to MO. Final report.
DC: \$8,105 TC: \$100,569

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☒ GAS ☐ OTHER:

2. Name of Operator:

ANR Production Company

3. Address and Telephone Number:

P. O. Box 749, Denver CO 80201-0749

(303) 573-4476

4. Location of Well

Footages: 2348' FNL & 1654' FEL

QQ, Sec., T., R., M.: SW/NE Section 32, T2S-R5W

5. Lease Designation and Serial Number:

Patented

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

N/A

8. Well Name and Number:

Broadhead 1-32B5

9. API Well Number:

43-013-30221

10. Field and Pool, or Wildcat:

Altamont

County: Duchesne

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT

(Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start _____

SUBSEQUENT REPORT

(Submit Original Form Only)

- | | |
|---|---|
| <input type="checkbox"/> Abandonment * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other <u>fish tubing and rods</u> | |

Date of work completion 2/13/93

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see the attached chronological history for the additional work performed on the above referenced well.

RECEIVED

MAR 11 1993

DIVISION OF
OIL GAS & MINING

13.

Name & Signature:

Eileen Danni Dey
Eileen Danni Dey

Title: Regulatory Analyst

Date: 3/8/93

(This space for State use only)

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

BROADHEAD #1-32B5 (FISH TUBING & RODS)

PAGE 3

ALTAMONT/BLUEBELL FIELD

DUCHESNE COUNTY, UTAH

WI: 75.000% ANR AFE: 64207-R1

TD: 11,820' PBD: 11,783'

CSG: 5" LINER @ 10,171'-11,817'

PERFS: 9,374'-11,725' (WASATCH)

CWC(M\$): 164.6

- 2/1/93 RIH w/impression block on tbg. MIRU. POOH w/rods. ND WH, NU BOP. POOH w/144 stds tbg, 4' tbg sub & solid plug. SDFN.
DC: \$3,591 TC: \$104,160
- 2/2/93 RIH w/tbg & impression block. RIH with 6-1/8" impression block & 144 stds 2-7/8" tbg. PU 17 jts 2-7/8" tbg, set down on fish top w/impression block @ 9494'. POOH w/tbg. Impression block had piece of 3/4" rod about 1-1/2' long stuck in center of block (circulation port). RIH with 6-1/8" impression block & 24 stds tbg. SDFN.
DC: \$3,081 TC: \$107,241
- 2/3/93 RIH w/tbg & 6-1/8" washover shoe. RIH w/tbg, set down on fish top @ 9494'. POOH w/tbg & impression block. Block showed two 3/4" rods sticking up. PU and RIH with 6-1/8" shoe w/rod catch inside, 1-jt 5-1/2" washpipe, BS, jars, 4 - 4-3/4" drill collars & 72 stds tbg. SDFN.
DC: \$5,505 TC: \$112,746
- 2/4/93 RIH with 6-1/8" burn shoe & washpipe. RIH w/tbg. Tagged top of fish @ 9494'. Rotate & work shoe over fish 2'. POOH w/tbg & BHA. Rec two short pieces ($\pm 2'$) of 1" rod balled up in shoe. SDFN @ 5:00 p.m.
DC: \$4,731 TC: \$117,477
- 2/5/93 Milling over fish at 9499.5'. RIH with 6-1/8" shoe with 4-3/4" ID, 1-jt 5-1/2" WP, BS, jars, 4 - 4-3/4" DC's & tbg. Tagged fish @ 9497'. RU power swivel. Milled over 2-1/2' of fish to 9499.5'. PU mill off btm 35'. SDFN.
DC: \$5,738 TC: \$123,215
- 2/6/93 RIH w/tbg & 6-1/8" burn shoe. Tagged top of fish @ 9497'. Milled another 6" to 9500'. Mill wore out. POOH w/tbg. RIH w/new 6-1/8" shoe with 4-3/4" ID, 1-jt 5-1/2" WP, BS, jars, DC's & 69 stds 2-7/8" tbg. SDFN.
DC: \$4,921 TC: \$128,136
- 2/7/93 Milling over fish @ 9504'. RIH w/tbg, tagged fish @ 9497'. Milled over fish from 9500' to 9504'/7 hrs. PU of btm. SDFN.
DC: \$4,483 TC: \$132,619
- 2/8/93 RIH w/overshot. Milled 6" over fish to 9504.5'/2 hrs - shoe wore out. POOH w/tbg. SDFN.
DC: (\$2,139) TC: \$130,480
- 2/9/93 RIH w/overshot. RIH w/5-3/4" overshot w/4-1/2" grapple & 6-1/8" guide, WP, BS, jars, DC's & tbg to fish @ 9497'. Rotated over fish top & work overshot down to 9504.5'. PU & pulled 10,000# over string wt and came loose. POOH w/tbg & BHA, had 2' of 2-7/8" tbg and split 2-7/8" coupling in overshot. SDFN.
DC: \$5,116 TC: \$135,596
- 2/10/93 RIH w/overshot. RIH w/5-3/4" OS with 3-21/32" grapple ext., BS, jars, DC's, excel & tbg. Latched onto fish, start jarring. Set jars off 25,000# over string wt. Jarred loose. POOH w/tbg & BHA. Had SN, 4' tbg sub, 2-7/8" x 1-1/2" XO & 9' of 1-1/2" tube in OS. SDFN.
DC: \$5,081 TC: \$140,677

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

BROADHEAD #1-32B5 (FISH TUBING & RODS)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH
WI: 75.000% ANR AFE: 64207-R1

PAGE 4

2/11/93 WO orders. RIH w/5-3/4" overshot w/4-1/2" grapple, 2 - 3" ext, BS, jars, DC's, excellerator & tbg to fish top @ 9505'. RU power swivel. Rotate & work tbg, unable to get over fish. RD power swivel. POOH w/tbg & BHA (had 1' piece of 1" rod in overshot). SDFN @ 4:00 p.m.
DC: \$5,429 TC: \$146,106

2/12/93 RD rig & equip. POOH, LD 4 - 4-3/4" DC's, jars, BS, 5-1/2" WP. Loaded out all fishing tools. RIH w/solid plug, 4' perf tbg sub and 303 jts 2-7/8" tbg. Landed tbg. NO BOP, NU WH. RIH w/rods. SDFN @ 5:00 p.m.
DC: \$3,313 TC: \$149,419

2/13/93 Operations suspended to evaluate future activity. RD rig & equip.
DC: \$18,718 TC: \$168,137

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☒ GAS ☐ OTHER:

2. Name of Operator:

ANR Production Company

3. Address and Telephone Number:

P. O. Box 749 Denver, CO 80201-0749 (303) 573-4476

4. Location of Well

Footages: 2348' FNL & 1654' FEL

QQ, Sec., T., R., M.: SW/NE Section 32, T2S-R5W

5. Lease Designation and Serial Number:

Patented

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

N/A

8. Well Name and Number:

Broadhead #1-32B5

9. API Well Number:

43-013-30221

10. Field and Pool, or Wildcat:

Altamont

County: Duchesne

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT

(Submit in Duplicate)

- | | |
|--|--|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input checked="" type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start 9/2/93

SUBSEQUENT REPORT

(Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see the attached procedure to recomplate the subject well to the Basal Lower Green River formation due to unsuccessful attempts to fish parted rods and tubing.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 8-31-93

BY: J. D. Matthews

13.

Name & Signature:

Marc D. Ernest

Marc D. Ernest

Title: Production Superintendent Date: 8/30/93

(This space for State use only)

RECOMPLETION PROCEDURE

BROADHEAD #1-32B5 Section 32-T2S-R5W Altamont Field Duchesne County, Utah

WELL DATA

LOCATION: 2348' FNL & 1654' FEL
ELEVATION: 6133' KB; 6115' GL
TOTAL DEPTH: 11,820'
PBTD: 11,783'
CASING: 13 3/4", 68#, K-55 set @ 336'
9 5/8", 40#, K-55 set @ 6519'
7", 26#, N-80 & S-95 set @ 10,333'
5", 18#, N-80 set @ 10,171'-11,817'
TUBING: 2 7/8", 6.5#, N-80, EUE 8rd set @ 9528' w/7" Surlock packer

TUBULAR DETAIL

Description	ID	Drift	Capacity, B/F	Burst, psi	Collapse, psi
7" 26# N-80	6.276"	6.151"	.0382	7,420	5,410
7" 26# S-95	6.276"	6.151"	.0382	8,600	7,800
5" 18# N-80	4.276"	4.151"	.0177	10,140	10,490
2 7/8" 6.5# N-80	2.441"	2.347"	.00579	10,570	11,160

PRESENT STATUS

SI. Last production July 12, 1992; 33 BO, 271 BW, 182 MCF. Last worked on February 13, 1993.

WELL HISTORY

Aug. 1973 Initial completion across the Wasatch from 10,238'-11,725', 1 SPF, 74 total holes. Acidize w/23,800 gals 15% HCl.
Flwd: 570 BOPD, 701 MCFPD, 0 BWPD w/1700 psi FTP

Feb. 1975 Acidized w/3500 gals 15% HCl for scale.
Prior Prod: 107 BOPD, 356 MCFPD, 34 BWPD
Post Prod: 160 BOPD, 561 MCFPD, 51 BWPD

Jan. 1976 Perf 11,170-11,508', 1 JSPF, 205 holes. Acidize 10,238-11,725' w/49,000 gals 15% HCl.
Prior Prod: 10 BOPD, 10 MCFPD, 0 BWPD
Post Prod: 10 BOPD, 10 MCFPD, 0 BWPD

Apr. 1976 Install Beam Pump
Prior Prod: 10 BOPD, 10 MCFPD, 0 BWPD
Post Prod: 188 BOPD, 171 MCFPD, 64 BWPD

Oct. 1979 Acid Wash w/1,050 gals 15% HCl
Prior Prod: SI
Post Prod: 12 BOPD, 35 MCFPD, 286 BWPD

Jul. 1980 Perf from 9,374-11,603', 3 SPF, 414 total holes. Acidize perfs from 9,374-11,725' w/49,000 gals 7 1/2% HCl.
Prior Prod: 5 BOPD, 45 MCFPD, 78 BWPD
Post Prod: 123 BOPD, 180 MCFPD, 53 BWPD

Sep. 1989 [REDACTED] Acidize perfs from 9,374-11,725', w/21,000 gals 15% HCl.
Prior Prod: 0 BOPD, 0 MCFPD, 0 BWPD
Post Prod: 54 BOPD, 42 MCFPD, 332 BWPD

Nov. 1992 First attempt to fish parted rods and tubing.
 Prior Prod: 33 BOPD, 182 MCFPD, 271 BWPD
 Post Prod: 0 prod; workover unsuccessful

Feb. 1993 Second attempt to fish parted rods and tubing.
 Prior Prod: 0 prod
 Post Prod: 0 prod; workover unsuccessful

PROCEDURE

- 1) MIRU. POOH and stand back rods. RU BOPE. POOH and stand back 2 7/8" tubing.
- 2) PU and RIH w/7", 26# casing scraper to top of fish @ $\pm 9,505'$.
- 3) RU Wireline Service Company. RIH and set 7", 26# RBP @ $\pm 9,500'$. Spot 1 sx of sand on BP w/dump bailer. Estimated top of sand @ 9,495'.
- 4) RIH w/4" casing gun, 120° phasing, 3 SPF. Perforate Upper Wasatch Transition and Basal Lower Green River from 8,952-9,440', 35 settings, 105 total holes. Per attached perf schedule.
- 5) PU and RIH w/2 jts 2 7/8" N-80 tubing, 7" Arrow Set 1 10K packer, F-Nipple and on-off tool, $\pm 8,945'$ 3 1/2" N-80 tubing. Set packer @ $\pm 8,945'$ (cmt top @ 8,938').
- 6) Acidize perforations from 8,952-9,483', 135 total holes, (105 new, 30 old) w/4,100 gals 15% HCl and 200 l.l BS's and specified additives. Max treating pressure 8500 psi. Note: The above acid job should be designed to include:
 - A) All fluids to be heated to 15°F.
 - B) Precede acid w/50 BBLS 3% KCl wtr w/10 gals per 1000 gals scale inhibitor w/50 l.l BS's evenly spaced.
 - C) All wtr to contain 3% KCl
 - D) Acidize in two stages of 2,050 gals each containing 75 l.l BS's evenly spaced and 1 diverter stage of 1,000 gals gelled saltwater w/1/2#/gal Benzoic acid flakes and rock salt. (Note: Xylene is not required.)
- 7) Flow/swab back acid load. If well flows strongly, drop standing valve. Release from on-off tool, POOH and LD 3 1/2" tubing. RIH w/2 7/8" prod string. Latch onto on-off tool. Retrieve standing valve. RDMO. Flow well as long as possible, then proceed to step #8.
- 8) Release packer and POOH. RU wireline sand bailer. PU and RIH w/retrieving head and CO tools. Retrieve BP and POOH.
- 9) PU and RIH w/2 7/8" solid plug, 4 1/2" N-80 PBGA, 2 7/8" N-80 pup, +.45 SN, 7 jts 2 7/8" N-80 tubing, 7" TAC and $\pm 8,720'$ 2 7/8" N-80 tubing. End of BHA should be @ $\pm 8,936'$. TAC should be set @ $\pm 8,721'$ and SN @ 8,900'.
- 10) PU and RIH w/1 3/4" pump, 200' 1" w/g, 1200' - 3/4" slick, 1725' - 3/4" w/g, 2525' - 7/8" slick, 2850' - 1" slick. (Note: If fluid level is deep following stimulation, consider 1 1/2" pump. Consult w/Denver office. Return to production.

BROADHEAD #1-32B5

PERFORATION SCHEDULE

UPPER WASATCH TRANSITION
and
BASAL LOWER GREEN RIVER

CORRELATION LOG: SCHLUMBERGER BOREHOLE
COMPENSATED SONIC LOG-GAMMA RAY
RUN 1 & RUN 2 DATED 5/28/73 & 6/17/73

8,952'	9,058'	9,166'	9,272'	9,338'
8,962'	9,082'	9,182'	9,278'	9,345'
8,989'	9,095'	9,194'	9,286'	9,353'
9,016'	9,119'	9,202'	9,297'	9,370'
9,022'	9,124'	9,212'	9,309'	9,420'
9,046'	9,129'	9,251'	9,323'	9,432'
9,048'	9,144'	9,266'	9,330'	9,440'

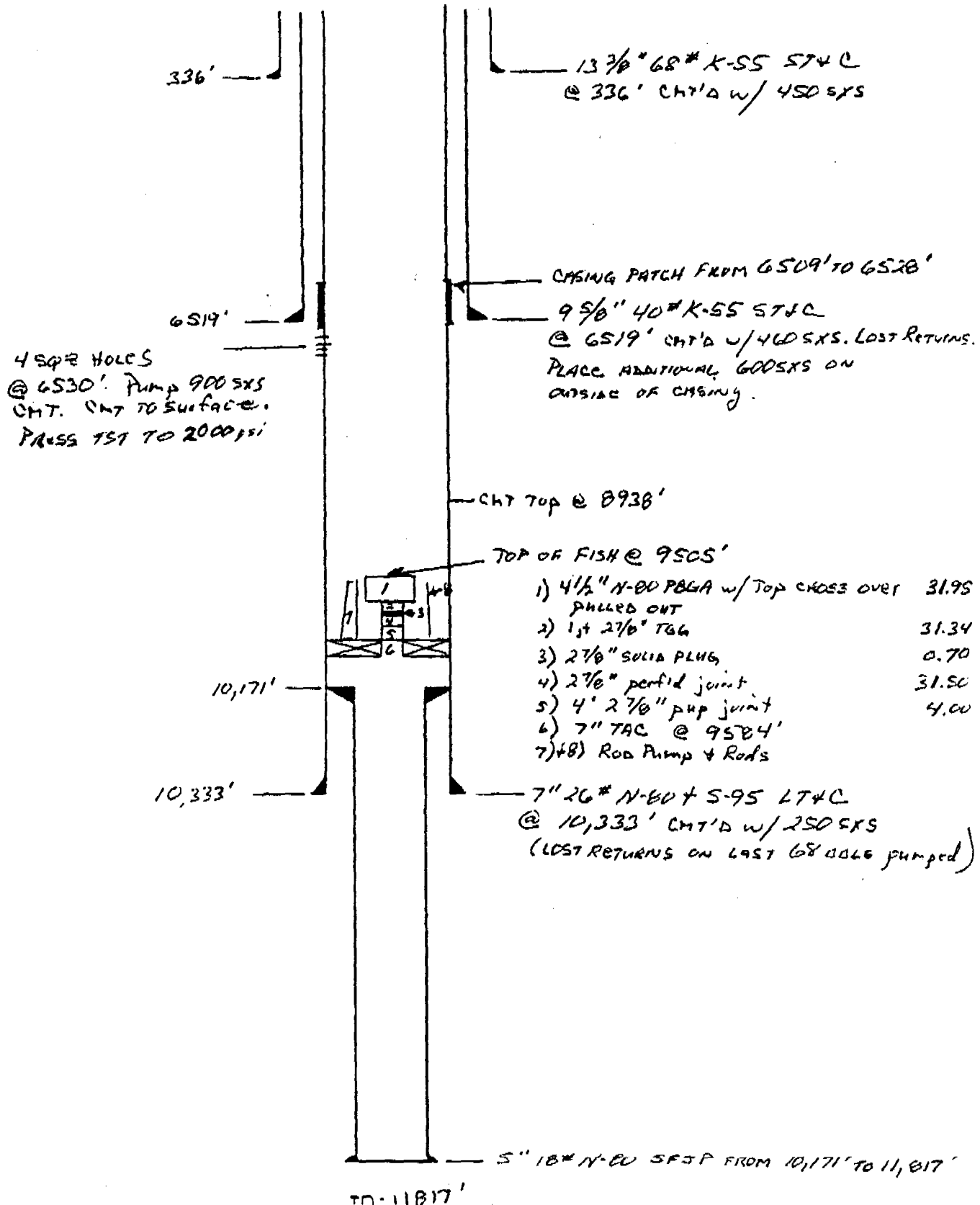
35 feet, 3 SPF, 105 total holes

PRESENT WELLBORE SCHEMATIC

BROADHEAD #1-32135

S.C. Prutch

5/25/93



STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER:	5. Lease Designation and Serial Number: Patented
2. Name of Operator: ANR Production Company	6. If Indian, Allottee or Tribe Name: N/A
3. Address and Phone Number: P.O. Box 749 Denver, CO 80201-0749 (303) 573-4476	7. Unit Agreement Name: N/A
4. Location of well: Footages: 348' FNL & 1654' FEL QQ, Sec., T. R.: 1/4E Section 32, T2S-R5W	8. Well Name and Number: Broadhead #1-32B5
	9. API Well Number: 43-013-30221
	10. Field and Pool, or Wildcat: Altamont
	County: Duchesne State: Utah

11. APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																											
NOTICE OF INTENT (Submit in Duplicate) <table border="0"> <tr> <td><input type="checkbox"/> Abandonment</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input checked="" type="checkbox"/> Recompletion</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Multiple Completion</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input type="checkbox"/> Other</td> <td></td> </tr> </table>	<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input checked="" type="checkbox"/> Recompletion	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> Other		SUBSEQUENT REPORT (Submit Original Form Only) <table border="0"> <tr> <td><input type="checkbox"/> Abandonment</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input type="checkbox"/> Other</td> <td></td> </tr> </table>	<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> Other	
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<input type="checkbox"/> Other																											
Date of work completion: 9/2/93																											
Report results of Multiple Completions and Recompletions on COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.																											

PLUGGED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled give subsurface locations and measures and zones pertinent to this work.)

The attached procedure to recomplate the subject well to the Basal Lower...
...due to unsuccessful attempts to fish parted rods and tubing.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 8-31-93
BY: J. Matthews

13.

Name & Signature: J. Matthews

Production Superintendent Date: 8/30/93

This space for State use only

RECOMPLETION PROCEDURE

BROADHEAD #1-32B5

Section 32-T2S-R5W

Altamont Field

Duchesne County, Utah

WELL DATA

LOCATION: 2348' FNL & 1654' FEL
ELEVATION: 6133' KB; 6115' GL
TOTAL DEPTH: 11,820'
PBTD: 11,783'
CASING: 13 3/4", 68#, K-55 set @ 336'
9 5/8", 40#, K-55 set @ 6519'
7", 26#, N-80 & S-95 set @ 10,333'
5", 18#, N-80 set @ 10,171'-11,817'
TUBING: 2 7/8", 6.5#, N-80, EUE 8rd set @ 9528' w/7" Surlock packer

TUBULAR DETAIL

Description	ID	Drift	Capacity, B/F	Burst, psi	Collapse, psi
7" 26# N-80	6.276"	6.151"	.0382	7,420	5,410
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5" 18# N-80	4.276"	4.151"	.0177	10,140	10,490
2 7/8" 6.5# N-80	2.441"	2.347"	.00579	10,570	11,160

PRESENT STATUS

SI. Last production July 12, 1992; 33 80, 271 BW, 182 MCF. Last worked on February 13, 1993.

WELL HISTORY

Aug. 1973 Initial completion across the Wasatch from 10,238'-11,725', 1 SPF, 74 total holes. Acidize w/23,800 gals 15% HCl.
Flwd: 570 BOPD, 701 MCFPD, 0 BWPD w/1700 psi FTP

Feb. 1975 Acidized w/3500 gals 15% HCl for scale.
Prior Prod: 107 BOPD, 356 MCFPD, 34 BWPD
Post Prod: 160 BOPD, 561 MCFPD, 51 BWPD

Jan. 1976 Perf 11,170-11,508', 1 JSPF, 205 holes. Acidize 10,238-11,725' w/49,000 gals 15% HCl.
Prior Prod: 10 BOPD, 10 MCFPD, 0 BWPD
Post Prod: 10 BOPD, 10 MCFPD, 0 BWPD

Apr. 1976 Install Beam Pump
Prior Prod: 10 BOPD, 10 MCFPD, 0 BWPD
Post Prod: 188 BOPD, 171 MCFPD, 64 BWPD

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Prior Prod: SI
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Jul. 1980 Perf from 9,374-11,603', 3 SPF, 414 total holes. Acidize perfs from 9,374-11,725' w/49,000 gals 7 1/2% HCl.
Prior Prod: 5 BOPD, 45 MCFPD, 78 BWPD
Post Prod: 123 BOPD, 180 MCFPD, 53 BWPD

Sep. 1989 ~~Perf from 9,374-11,725', 3 SPF, 414 total holes. Acidize perfs from 9,374-11,725' w/21,000 gals 15% HCl.~~ Acidize perfs from 9,374-11,725', w/21,000 gals 15% HCl.
Prior Prod: 0 BOPD, 0 MCFPD, 0 BWPD
Post Prod: 54 BOPD, 42 MCFPD, 332 BWPD

Nov. 1992 First attempt to fish parted rods and tubing.
 Prior Prod: 33 BOPD, 182 MCFPD, 271 BWPD
 Post Prod: 0 prod; workover unsuccessful

Feb. 1993 Second attempt to fish parted rods and tubing.
 Prior Prod: 0 prod
 Post Prod: 0 prod; workover unsuccessful

PROCEDURE

- 1) MIRU. POOH and stand back rods. RU BOPE. POOH and stand back 2 $\frac{1}{2}$ " tubing.
- 2) PU and RIH w/7", 26# casing scraper to top of fish @ $\pm 9,505'$.
- 3) RU Wireline Service Company. RIH and set 7", 26# RBP @ $\pm 9,500'$. Spot 1 sx of sand on BP w/dump bailer. Estimated top of sand @ 9,495'.
- 4) RIH w/4" casing gun, 120° phasing, 3 SPF. Perforate Upper Wasatch Transition and Basal Lower Green River from 8,952-9,440', 35 settings, 105 total holes. Per attached perf schedule.
- 5) PU and RIH w/2 jts 2 $\frac{1}{2}$ " N-80 tubing, 7" Arrow Set 1 10K packer, F-Nipple and on-off tool, $\pm 8,945'$ 3 $\frac{1}{2}$ " N-80 tubing. Set packer @ $\pm 8,945'$ (cmt top @ 8,938').
- 6) Acidize perforations from 8,952-9,483', 135 total holes, (105 new, 30 old) w/4,100 gals 15% HCl and 200 l.l BS's and specified additives. Max treating pressure 8500 psi. Note: The above acid job should be designed to include:
 - A) All fluids to be heated to 15°F.
 - B) Precede acid w/50 BBLS 3% KCl wtr w/10 gals per 1000 gals scale inhibitor w/50 l.l BS's evenly spaced.
 - C) All wtr to contain 3% KCl
 - D) Acidize in two stages of 2,050 gals each containing 75 l.l BS's evenly spaced and 1 diverter stage of 1,000 gals gelled saltwater w/ $\frac{1}{2}$ #/gal Benzoic acid flakes and rock salt. (Note: Xylene is not required.)
- 7) Flow/swab back acid load. If well flows strongly, drop standing valve. Release from on-off tool, POOH and LD 3 $\frac{1}{2}$ " tubing. RIH w/2 $\frac{1}{2}$ " prod string. Latch onto on-off tool. Retrieve standing valve. RDMO. Flow well as long as possible, then proceed to step #8.
- 8) Release packer and POOH. RU wireline sand bailer. PU and RIH w/retrieving head and CO tools. Retrieve BP and POOH.
- 9) PU and RIH w/2 $\frac{1}{2}$ " solid plug, 4 $\frac{1}{2}$ " N-80 PBGA, 2 $\frac{1}{2}$ " N-80 pup, +.45 SN, 7 jts 2 $\frac{1}{2}$ " N-80 tubing, 7" TAC and $\pm 8,720'$ 2 $\frac{1}{2}$ " N-80 tubing. End of BHA should be @ $\pm 8,936'$. TAC should be set @ $\pm 8,721'$ and SN @ 8,900'.
- 10) PU and RIH w/1 $\frac{3}{4}$ " pump, 200' 1" w/g, 1200' - $\frac{3}{4}$ " slick, 1725' - $\frac{3}{4}$ " w/g, 2525' - $\frac{3}{4}$ " slick, 2850' - 1" slick. (Note: If fluid level is deep following stimulation, consider 1 $\frac{1}{2}$ " pump. Consult w/Denver office. Return to production.

BROADHEAD #1-32B5

PERFORATION SCHEDULE

UPPER WASATCH TRANSITION
and
BASAL LOWER GREEN RIVER

CORRELATION LOG: SCHLUMBERGER BOREHOLE
COMPENSATED SONIC LOG-GAMMA RAY
RUN 1 & RUN 2 DATED 5/28/73 & 6/17/73

8,952'	9,058'	9,166'	9,272'	9,338'
8,962'	9,082'	9,182'	9,278'	9,345'
8,989'	9,095'	9,194'	9,286'	9,353'
9,016'	9,119'	9,202'	9,297'	9,370'
9,022'	9,124'	9,212'	9,309'	9,420'
9,046'	9,129'	9,251'	9,323'	9,432'
9,048'	9,144'	9,266'	9,330'	9,440'

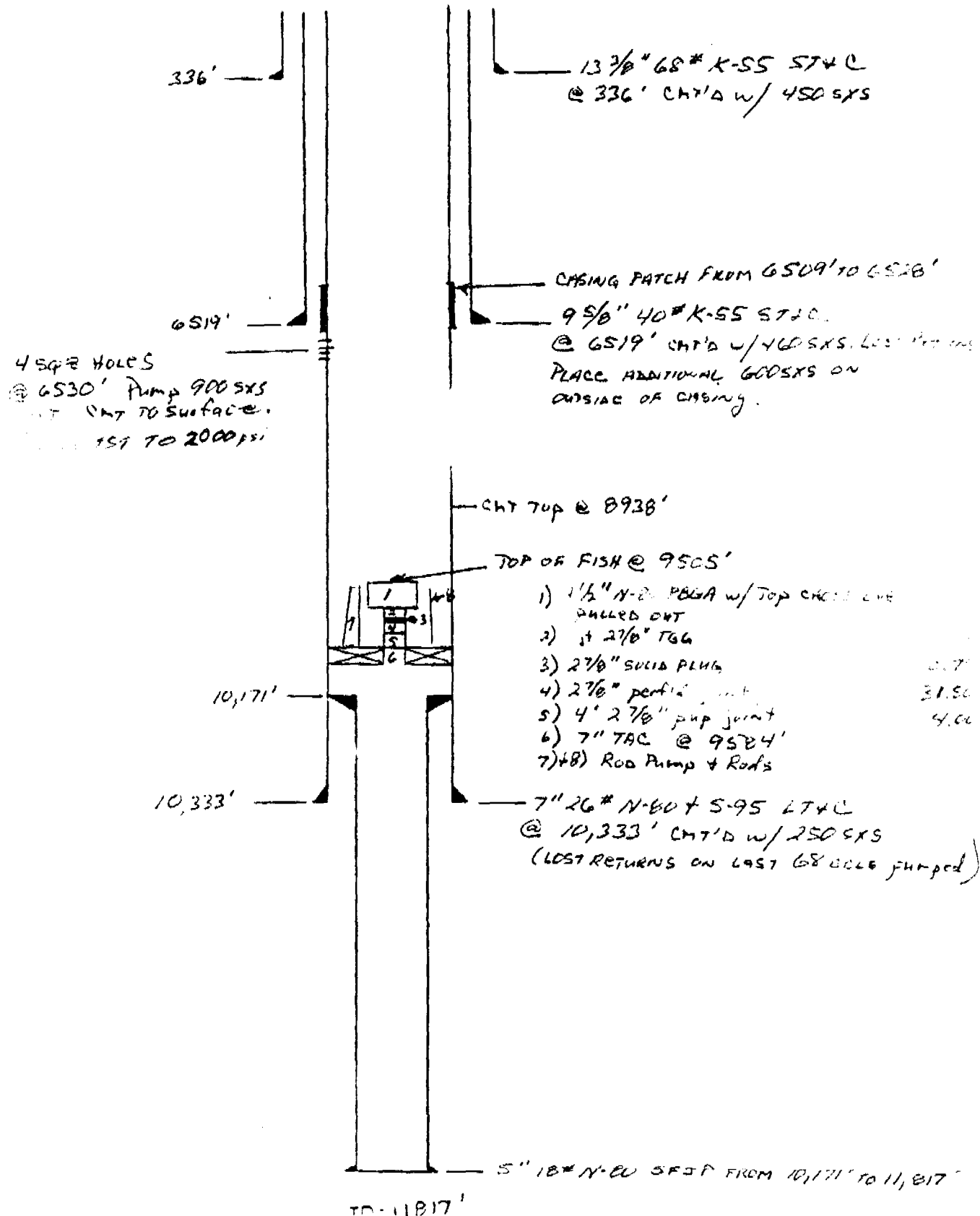
35 feet, 3 SPF, 105 total holes

PRESENT WELLBORE SCHEMATIC

BROADHEAD #1-32135

S.C. Prutch

5/25/93



STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER: _____	5. Lease Designation and Serial Number: Patented
2. Name of Operator: ANR Production Company	6. If Indian, Allottee or Tribe Name: N/A
3. Address and Telephone Number: P. O. Box 749 Denver, CO 80201-0749 (303) 573-4476	7. Unit Agreement Name: N/A
4. Location of Well Footages: 2348' FNL & 1654' FEL QQ, Sec., T., R., M.: SW/NE Section 32, T2S-R5W	8. Well Name and Number: Broadhead #1-32B5 9. API Well Number: 43-013-30221 10. Field and Pool, or Wildcat: Altamont
	County: Duchesne State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)

- | | |
|--|--|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input checked="" type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start 9/2/93

SUBSEQUENT REPORT (Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see the attached procedure to recomplete the subject well to the Basal Lower Green River formation due to unsuccessful attempts to fish parted rods and tubing.

Verbal approval received from Frank Matthews, State of Utah, 8/31/93.

APPROVED BY THE STATE
OF UTAH
DIVISION OF OIL, GAS AND MINING
DATE: 9/7/93
BY: Frank Matthews

RECEIVED

SEP 02 1993

DIVISION OF
OIL, GAS & MINING

13. Name & Signature: Marc D. Ernest Title: Production Superintendent Date: 8/31/93
Marc D. Ernest

(This space for State use only)

Nov. 1992 First attempt to fish parted rods and tubing.
Prior Prod: 33 BOPD, 182 MCFPD, 271 BWPD
Post Prod: 0 prod; workover unsuccessful

Feb. 1993 Second attempt to fish parted rods and tubing.
Prior Prod: 0 prod
Post Prod: 0 prod; workover unsuccessful

PROCEDURE

- 1) MIRU. POOH and stand back rods. RU BOPE. POOH and stand back 2 $\frac{7}{8}$ " tubing.
- 2) PU and RIH w/7", 26# casing scraper to top of fish @ $\pm 9,505'$.
- 3) RU Wireline Service Company. RIH and set 7", 26# RBP @ $\pm 9,500'$. Spot 1 sx of sand on BP w/dump bailer. Estimated top of sand @ 9,495'.
- 4) RIH w/4" casing gun, 120° phasing, 3 SPF. Perforate Upper Wasatch Transition and Basal Lower Green River from 8,952-9,440', 35 settings, 105 total holes. Per attached perf schedule.
- 5) PU and RIH w/2 jts 2 $\frac{7}{8}$ " N-80 tubing, 7" Arrow Set 1 10K packer, F-Nipple and on-off tool, $\pm 8,945'$ 3 $\frac{1}{2}$ " N-80 tubing. Set packer @ $\pm 8,945'$ (cmt top @ 8,938').
- 6) Acidize perforations from 8,952-9,483', 135 total holes, (105 new, 30 old) w/4,100 gals 15% HCl and 200 1.1 BS's and specified additives. Max treating pressure 8500 psi. Note: The above acid job should be designed to include:
 - A) All fluids to be heated to 15°F.
 - B) Precede acid w/50 BBLS 3% KCl wtr w/10 gals per 1000 gals scale inhibitor w/50 1.1 BS's evenly spaced.
 - C) All wtr to contain 3% KCl
 - D) Acidize in two stages of 2,050 gals each containing 75 1.1 BS's evenly spaced and 1 diverter stage of 1,000 gals gelled saltwater w/ $\frac{1}{2}$ #/gal Benzoic acid flakes and rock salt. (Note: Xylene is not required.)
- 7) Flow/swab back acid load. If well flows strongly, drop standing valve. Release from on-off tool, POOH and LD 3 $\frac{1}{2}$ " tubing. RIH w/2 $\frac{7}{8}$ " prod string. Latch onto on-off tool. Retrieve standing valve. RDMO. Flow well as long as possible, then proceed to step #8.
- 8) Release packer and POOH. RU wireline sand bailer. PU and RIH w/retrieving head and CO tools. Retrieve BP and POOH.
- 9) PU and RIH w/2 $\frac{7}{8}$ " solid plug, 4 $\frac{1}{2}$ " N-80 PBGA, 2 $\frac{7}{8}$ " N-80 pup, +.45 SN, 7 jts 2 $\frac{7}{8}$ " N-80 tubing, 7" TAC and $\pm 8,720'$ 2 $\frac{7}{8}$ " N-80 tubing. End of BHA should be @ $\pm 8,936'$. TAC should be set @ $\pm 8,721'$ and SN @ 8,900'.
- 10) PU and RIH w/1 $\frac{3}{4}$ " pump, 200' 1" w/g, 1200' - $\frac{3}{4}$ " slick, 1725' - $\frac{3}{4}$ " w/g, 2525' - $\frac{7}{8}$ " slick, 2850' - 1" slick. (Note: If fluid level is deep following stimulation, consider 1 $\frac{1}{2}$ " pump. Consult w/Denver office. Return to production.

RECOMPLETION PROCEDURE

BROADHEAD #1-32B5

Section 32-T2S-R5W

Altamont Field

Duchesne County, Utah

WELL DATA

LOCATION: 2348' FNL & 1654' FEL
ELEVATION: 6133' KB; 6115' GL
TOTAL DEPTH: 11,820'
PBSD: 11,783'
CASING: 13 $\frac{3}{8}$ ", 68#, K-55 set @ 336'
9 $\frac{5}{8}$ ", 40#, K-55 set @ 6519'
7", 26#, N-80 & S-95 set @ 10,333'
5", 18#, N-80 set @ 10,171'-11,817'
TUBING: 2 $\frac{7}{8}$ ", 6.5#, N-80, EUE 8rd set @ 9528' w/7" Surlock packer

SEP 02 1993

DIVISION OF
OIL, GAS & MINING

TUBULAR DETAIL

Description	ID	Drift	Capacity, B/F	Burst, psi	Collapse, psi
7" 26# N-80	6.276"	6.151"	.0382	7,420	5,410
7" 26# S-95	6.276"	6.151"	.0382	8,600	7,800
5" 18# N-80	4.276"	4.151"	.0177	10,140	10,490
2 $\frac{7}{8}$ " 6.5# N-80	2.441"	2.347"	.00579	10,570	11,160

PRESENT STATUS

SI. Last production July 12, 1992; 33 BO, 271 BW, 182 MCF. Last worked on February 13, 1993.

WELL HISTORY

Aug. 1973 Initial completion across the Wasatch from 10,238'-11,725', 1 SPF, 74 total holes. Acidize w/23,800 gals 15% HCl.
Flwd: 570 BOPD, 701 MCFPD, 0 BWPD w/1700 psi FTP

Feb. 1975 Acidized w/3500 gals 15% HCl for scale.
Prior Prod: 107 BOPD, 356 MCFPD, 34 BWPD
Post Prod: 160 BOPD, 561 MCFPD, 51 BWPD

Jan. 1976 Perf 11,170-11,508', 1 JSPF, 205 holes. Acidize 10,238-11,725' w/49,000 gals 15% HCl.
Prior Prod: 10 BOPD, 10 MCFPD, 0 BWPD
Post Prod: 10 BOPD, 10 MCFPD, 0 BWPD

Apr. 1976 Install Beam Pump
Prior Prod: 10 BOPD, 10 MCFPD, 0 BWPD
Post Prod: 188 BOPD, 171 MCFPD, 64 BWPD

Oct. 1979 Acid Wash w/1,050 gals 15% HCl
Prior Prod: SI
Post Prod: 12 BOPD, 35 MCFPD, 286 BWPD

Jul. 1980 Perf from 9,374-11,603', 3 SPF, 414 total holes. Acidize perfs from 9,374-11,725' w/49,000 gals 7 $\frac{1}{2}$ % HCl.
Prior Prod: 5 BOPD, 45 MCFPD, 78 BWPD
Post Prod: 123 BOPD, 180 MCFPD, 53 BWPD

Sep. 1989 Squeeze casing leak @ 6,530' (4 SPF) w/900 sx cmt. Acidize perfs from 9,374-11,725', w/21,000 gals 15% HCl.
Prior Prod: 0 BOPD, 0 MCFPD, 0 BWPD
Post Prod: 54 BOPD, 42 MCFPD, 332 BWPD

BROADHEAD #1-32B5

PERFORATION SCHEDULE

UPPER WASATCH TRANSITION
and
BASAL LOWER GREEN RIVER

CORRELATION LOG: SCHLUMBERGER BOREHOLE
COMPENSATED SONIC LOG-GAMMA RAY
RUN 1 & RUN 2 DATED 5/28/73 & 6/17/73

8,952'	9,058'	9,166'	9,272'	9,338'
8,962'	9,082'	9,182'	9,278'	9,345'
8,989'	9,095'	9,194'	9,286'	9,353'
9,016'	9,119'	9,202'	9,297'	9,370'
9,022'	9,124'	9,212'	9,309'	9,420'
9,046'	9,129'	9,251'	9,323'	9,432'
9,048'	9,144'	9,266'	9,330'	9,440'

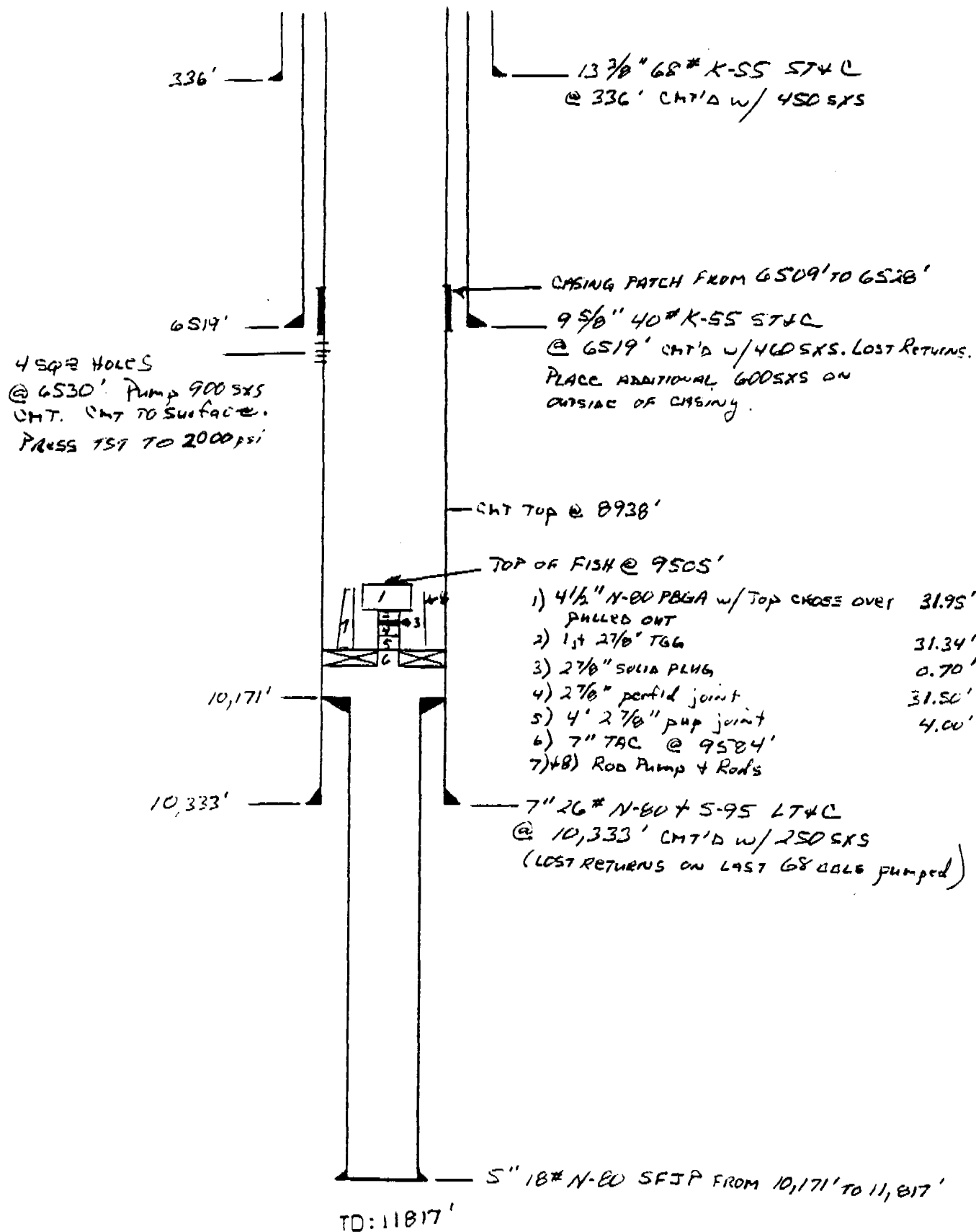
35 feet, 3 SPF, 105 total holes

PRESENT WELLBORE SCHEMATIC

BROADHEAD #1-32135

S.C. Prutch

5/25/93



STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☒ GAS ☐ OTHER:

2. Name of Operator:

ANR Production Company

3. Address and Telephone Number:

P. O. Box 749

Denver, CO 80201-0749

(303) 573-4454

4. Location of Well

Footages: 2348' FNL & 1654' FEL

OQ, Sec. T., R., M.: SW/NE Section 32, T2S-R5W

5. Lease Designation and Serial Number:

Patented

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

N/A

8. Well Name and Number:

Broadhead #1-32B5

9. API Well Number:

43-013-30221

10. Field and Pool, or Wildcat:

Altamont

County: Duchesne

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other | |

Approximate date work will start

SUBSEQUENT REPORT (Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other | Recomplete Lower Green River |

Date of work completion 9/23/93

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see the attached chronological history for the procedure performed to recomplete the subject well in the Lower Green River formation.

The recompletion was unsuccessful.

DIVISION OF
OIL, GAS & MINING

13.

Name & Signature:

Marc D. Ernest

Title: Production Superintendent

Date: 10/6/93

(This space for State use only)

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

BROADHEAD #1-32B5 (RECOMPLETE LOWER GREEN RIVER)

PAGE 5

ALTAMONT FIELD
DUCHESE COUNTY, UTAH
WI: 75.0% ANR AFE: 64746
TD: 11,820' ~~PERF: 9490'~~
5" LINER @ 10,171'-11,817'
~~PERFS: 8952'-9483'~~
CWC(MS): 86.1

- 9/7/93 POOH w/tbg. MIRU rig. POOH w/rods. ND WH, NU BOP. POOH w/16 stds 2-7/8" tbg.
DC: \$2,630 TC: \$2,630
- 9/8/93 POOH w/bit & scraper. POOH w/tbg & BHA. RIH w/6-1/8" bit, 7" csg scraper & tbg to TOF @ 9505'. POOH w/108 stds tbg.
DC: \$2,107 TC: \$4,737
- 9/9/93 PU & RIH w/3-1/2" tbg. POOH w/tbg, csg scraper & bit. RU Cutters. Ran GR log from 9450'-8700'. Set MSOT 7", WL set RBP @ 9490'. Dump 1 sx sand on RBP. Perf Upper Wasatch & Lower Green River from 9440'-8952', 3 SPF, 120° phasing w/4" csg guns.
- | Run # | Interval | Feet | Holes | PSI | FL |
|-------|-------------|------|-------|-----|-------|
| 1 | 9440'-9182' | 20 | 60 | 0 | 6500' |
| 2 | 9166'-8952' | 15 | 45 | 0 | 6400' |
| | | 35 | 105 | | |
- RD Cutters. PU & RIH w/2 jts 2-7/8" tbg, MSOT 7" Arrowset-1 10K pkr, "F" nipple, on-off tool & 87 jts 3-1/2" tbg.
DC: \$23,152 TC: \$27,889
- 9/10/93 Prep to acidize. PU & RIH w/204 jts 3-1/2" tbg, set pkr @ 8912' w/tail to 8976'. Filled csg w/120 BW. PI csg to 2000 psi, held.
DC: \$3,119 TC: \$31,008
- 9/13/93 Swabbing well. RU Dowell & acidize Upper Wasatch & L. Green River perfs 8952'-9483' w/4100 gal 15% HCl w/additives, BAF, rock salt & 200 - 1.1 BS's. Max press 9059 psi, avg press 8500 psi. Max rate 33.7 BPM, min rate 17.7 BPM, avg rate 22 BPM. ISIP 1500 psi, 5 min 183 psi & 10 min 0 psi. Total load 287 bbls. Good diversion. Made 9 swab trips & rec 48 BW w/tr of oil on last run & pH 7, IFL @ 4800', FFL @ 5400'.
DC: \$22,141 TC: \$53,149
- 9/14/93 RIH w/CO tool. Bled 100 psi off tbg. Made 4 runs & rec 22 BF. IFL @ 4200', FFL @ 4900'. RD swab equip. Rls'd pkr. Start POOH w/tbg.
DC: \$5,322 TC: \$58,471
- 9/15/93 RIH w/retrieving head & circ. RIH w/MSOT retr hd, OFR cleanout tool & tbg, tagged fill @ 9474'. CO fill to TOF @ 9505'. POOH w/tbg, CO tool & retr hd. Did not have RBP (retr hd was full of shale).
DC: \$4,564 TC: \$63,035
- 9/16/93 RIH w/prod tbg. RIH w/retr hd & tbg, tagged fill @ 9504'. RU Western pump truck. Filled hole w/165 BW. Circ & rotate down to 9505'. Latched onto RBP. POOH w/tbg & RBP. RIH w/BHA & 100 stds tbg.
DC: \$7,619 TC: \$70,654
- 9/17/93 Well on production. Set TAC @ 8685'. ND BOP. Landed tbg on hanger w/19,000# tension. NU WH. RIH w/new Nat'l 1 1/2" pump & rods. Space out & seat pump. PT tbg to 500 psi, held. RD rig. Place well on pump.
DC: \$14,710 TC: \$85,364
- 9/17/93 Pmpd 0 BO, 130 BW, 0 MCF, 12 hr.

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

BROADHEAD #1-32B5 (RECOMPLETE LOWER GREEN RIVER)
ALTAMONT FIELD
DUCHESNE COUNTY, UTAH
WI: 75.0% ANR AFE: 64746

PAGE 6

9/18/93 Pmpd 0 BO, 174 BW, 0 MCF.
9/19/93 Pmpd 0 BO, 303 BW, 0 MCF, 9 SPM.
9/20/93 Pmpd 20 BO, 258 BW, 53 MCF, 9 SPM. RD rig & equip. Moved out.
DC: \$7,714 TC: \$93,078
9/21/93 Pmpd 0 BO, 319 BW, 53 MCF, 9 SPM.
9/22/93 Pmpd 0 BO, 300 BW, 0 MCF, 9 SPM.
9/23/93 Pmpd 0 BO, 322 BW, 11 MCF, 9 SPM. Will drop from report & evaluate
for P&A. Final report.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☒ GAS ☐ OTHER:

2. Name of Operator:

ANR Production Company

3. Address and Telephone Number:

P. O. Box 749

Denver, CO 80201-0749

Phone: (303) 573-4476

4. Location of Well

Footages: 2348' FNL & 1654' FEL

QQ, Sec., T., R., M.: SW/NE Section 32, T2S-R5W

5. Lease Designation and Serial Number:

Patented

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

N/A

8. Well Name and Number:

Broadhead #1-32B5

9. API Well Number:

43-013-30221

10. Field and Pool, or Wildcat:

Altamont

County: Duchesne

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)

- | | |
|--|---|
| <input checked="" type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start 1/28/94

SUBSEQUENT REPORT (Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see the attached procedure for the plug and abandonment procedure to be performed on the subject well.

APPROVED BY THE STATE
OF UTAH, DIVISION OF
OIL, GAS, AND MINING

1-18-94
JW Patrick
as per attached steps

13.

Name & Signature:

Joe Adamski

Title:

Environmental &
Regulatory Analyst

Date: 12/29/93

(This space for State use only)

PLUG AND ABANDONMENT PROCEDURE

BROADHEAD #1-32B5
SW NE 32, T2S-R5W
ALTAMONT FIELD
Duchesne Co., Utah

1. MI & RU SU.
 2. RU HOU, pump 100 bbls hot water down csg and up tbg. Remove horsehead.
 3. PU on polish rod, unseat pump. Pull & LD rods and pump.
 4. Release 7" tbg anchor @ 8,685', strip on BOP's.
 5. TOH w/2-7/8" tbg. LD production assembly.
 6. PU & TIH w/7" cement retainer, set at 8,800' (138' above the top of cement behind 7" csg and 152' above the top perforation at 8,952'). Circ hole clean.
 7. Pump 50 sacks cement below retainer and spot 75 sacks cement on top of retainer. Cement plug in 7" casing from 8,400-9,067'.
 8. Circ hole with 9.0 ppg mud. Pressure test 7" csg to 1,000 psi. TOH w/tbg.
 9. RU WL, perforate 4 SPF @ 6,670' (9-5/8" csg landed at 6,519'). Run and set WL cement retainer at 6,480' (csg patch at 6,509-6528').
 10. PU & TIH w/stinger on 2-7/8" tubing, sting into retainer at 6,480'.
 11. Pump 75 sacks cement below retainer; unsting from retainer and spot 75 sacks on top of retainer. Cement plug in 7" casing from 6,080-6,670'. Cement plug in 7" X 8-3/4" annulus from 6,530-6,670'. TOH w/tbg.
 12. RU WL, perforate 7" csg w/4 SPF @ 2,500'.
 13. RU pumper. If circulation established, either through 7" X 9-5/8" csg annulus or through 9-5/8" csg X 12-1/4" hole annulus, RD pumper and proceed to step 14.
- If circulation not established, RD pumper. TIH w/open ended tbg, spot 125 sack cement plug from 2,700-2,030'. TOH w/tbg. Skip steps 14 & 15.
14. RU WL, run & set 7" cement retainer at 2,400'. RD WL.
 15. PU & TIH W/stinger on 2-7/8" tbg, sting into retainer at 2,400'. RU pumper, circulate cement to surface through either annulus or both. Unsting from retainer, spot 75 sacks of cement on top of retainer placing a cement plug in 7" csg from 2,000-2,500' and behind the 7" and/or 9-5/8" to the surface.
 16. RU WL, perforate 7" casing w/4 SPF at 450' (13-3/8" csg @ 336').
 17. RU pumper. If circulation established, pump 150 sacks cement filling 7" X 9-5/8" annulus to surface and leaving 7" casing full of cement from 450' to surface.

If circulation not established, RD pumper. TIH w/open ended
tbg, spot 125 sack cement plug from 500' to surface.

18. Weld DHM to 7" casing w/necessary description. RD & MO SU.
Tear down and move out surface and well equipment. Restore
location, as required.

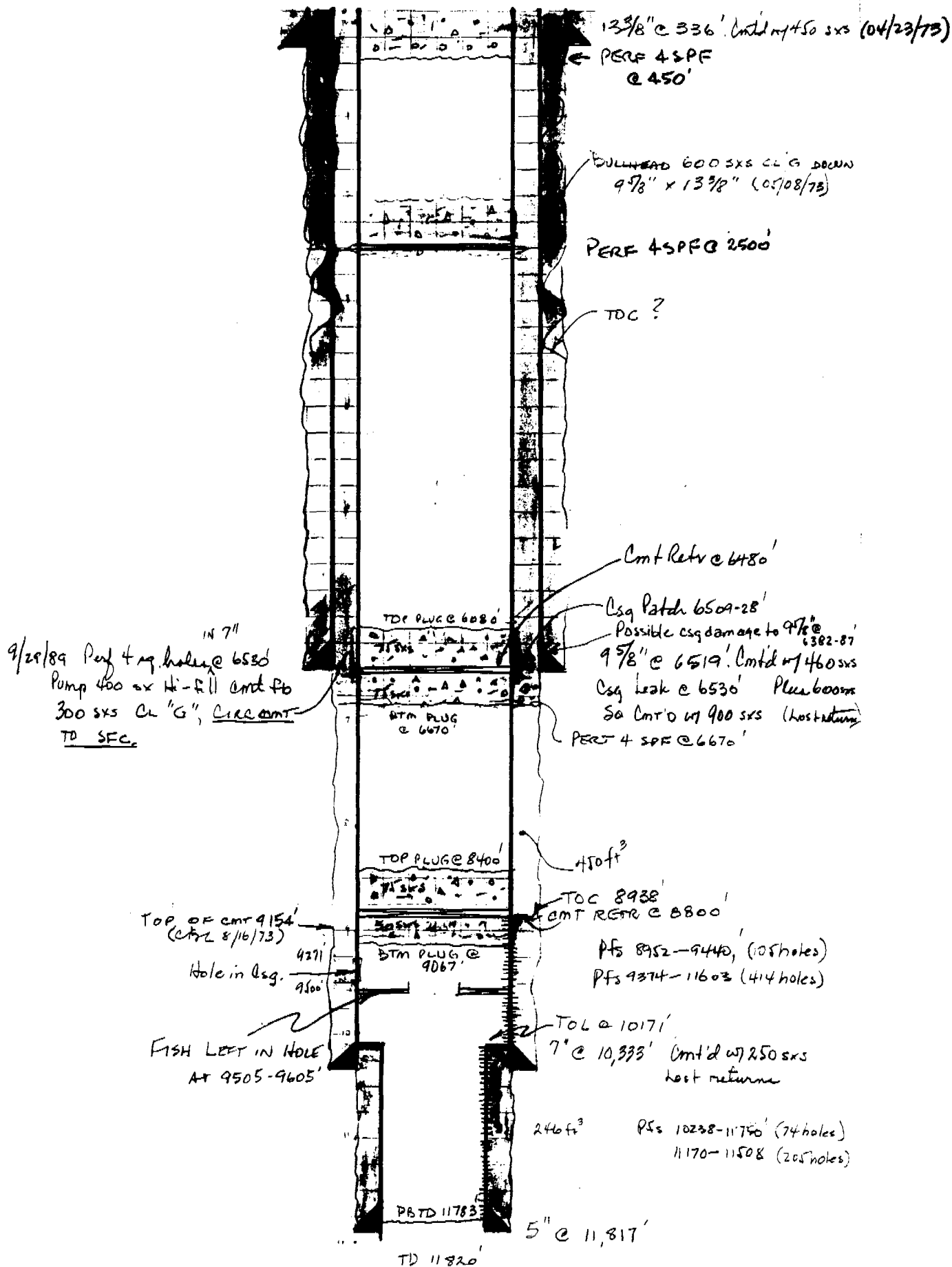
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10/19/93

R 11/01/93 *Jka*

WELLBORE SKETCH

BROADHEAD #1-32B5



STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ABANDONMENT OPERATIONS

COMPANY NAME: ANR PRODUCTION COMPANY, INC.

WELL NAME: BROADHEAD #1-32B5

QTR/QTR: SW/NE SECTION: 32 TOWNSHIP: 02S RANGE: 05W

COUNTY: DUCHESNE API NO: 43-013-30221

CEMENTING COMPANY: UINTAH BASIN CONCRETE WELL SIGN: YES

INSPECTOR: DENNIS L. INGRAM TIME: 10:00 A.M. DATE: 6/17/94

CEMENTING OPERATIONS: PLUGBACK: SQUEEZE: P&A WELL: Y

SURFACE PLUG: 0 TO 250 INTERMEDIATE PLUG: 6134 TO 6663

BOTTOM PLUG SET @: 8781 WIRELINE: MECHANICAL: Y

PERFORATIONS: YES SQUEEZE PRESSURE: FLAT OUT-50PSI

CASING SIZE: SURFACE: 9 5/8" PRODUCTION:

GRADE: SURFACE: 7" PRODUCTION:

PRODUCTION CASING TESTED TO: 1000 PSI TIME: 16 MIN:

SLURRY INFORMATION: (INCLUDE NO. OF SACKS CLASS AND ADDITIVES)

1. SURFACE PLUG: 8 JOINTS (250 FEET) CIRC. CEMENT TO SURFACE.

2. INTERMEDIATE PLUGS: 150 SKS 'G' @ 6663; TOP 6134'; 3% CC

3. BOTTOM PLUG: 50 SKS 'G' BELOW RETAINER

4. CEMENT ON TOP OF PLUG: 75 SKS CLASS 'G' ABOVE RETAINER

5. ANNULUS CEMENTED: 320 SKS 'G' BETWEEN 9 5/8" & 13 3/8" CSG

6. FLUID IN WELL BORE: 9.0 PPG PACKER FLUID WITH CORR. INHIB

ABANDONMENT MARKER SET:

PLATE: PIPE: Y CORRECT INFORMATION: Y

REHABILITATION COMPLETED: NO

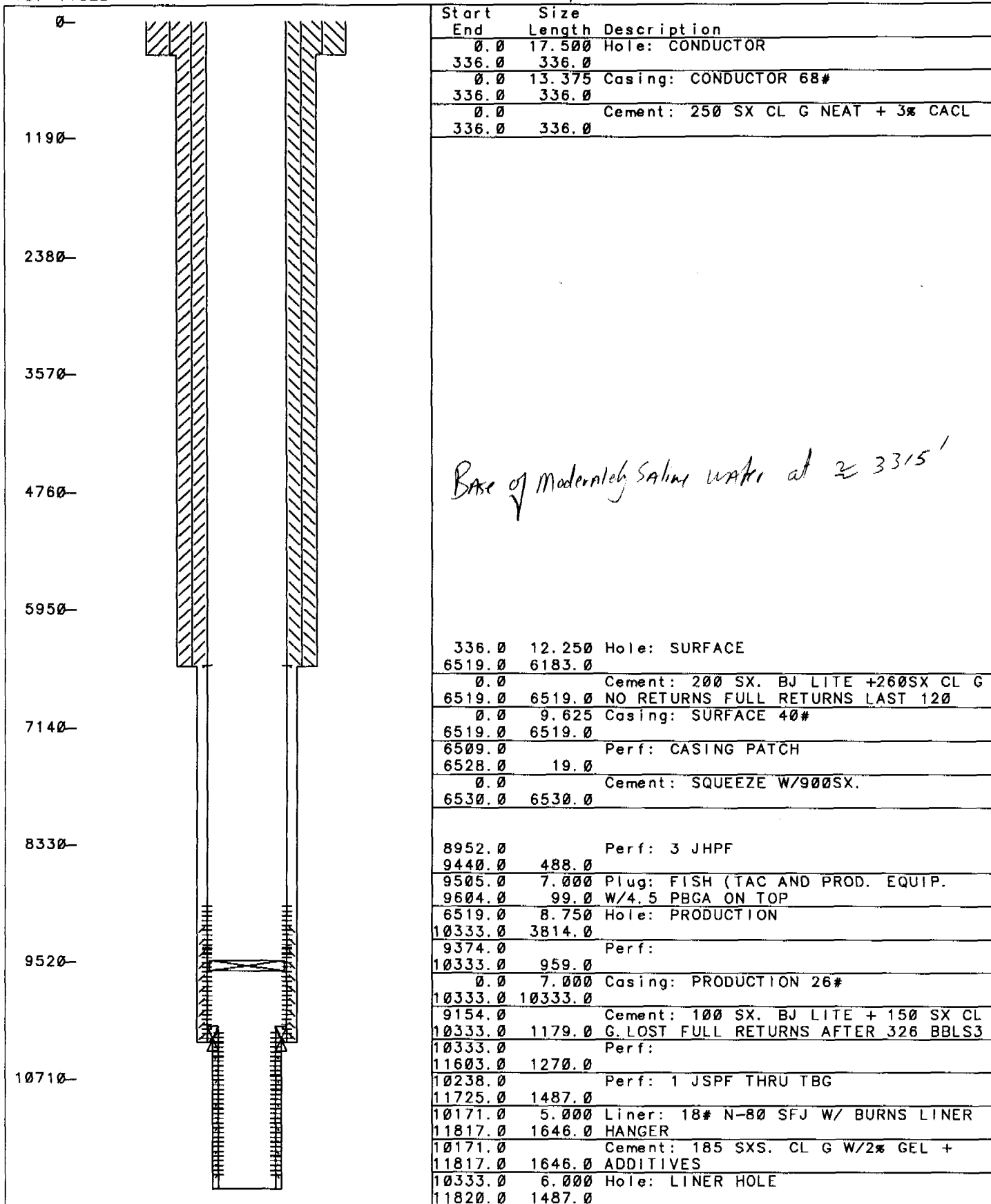
COMMENTS: TESTED CASING DOWN BACK SIDE WHILE STUNG INTO RETAINER,
THEN STUNG OUT TO BLED OFF. PRESSURE LEAKED OFF FROM 1000 PSI TO
975 IN 16 MIN. TAGGED SURFACE PLUG @ 6134. 25 SKS 'G' @ 3363'.

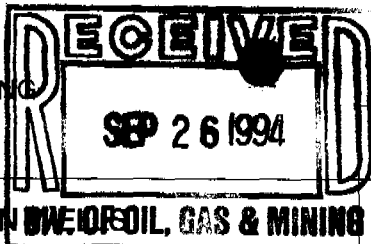
Lease: BROADHEAD
Well #: 1 32B5

Spud Date: 04/22/1973
KB: 6133
TD: 11820

Comp Date: 08/30/1973
ELEV: 6115
PBD: 11786

API #: 43-013-30221-
Location: Sec 32 Twn 02S Rng 05W
County: DUCHESNE
State: UT
Field: ALTAMONT
Operator: ANR PRODUCTION COMPANY



STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON OIL, GAS & MINING

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Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:

Patented

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

N/A

8. Well Name and Number:

Broadhead #1-32B5

9. API Well Number:

43-013-30221

10. Field and Pool, or Wildcat:

Altamont

1. Type of Well:

OIL ☒ GAS ☐ OTHER:

2. Name of Operator:

ANR Production Company

3. Address and Telephone Number:

P.O. Box 749, Denver, CO 80201-0749

(303) 573-4476

4. Location of Well

Footages:

2348' FNL & 1654' FEL

County:

Duchesne

QQ, Sec., T., R., M.:

SW/NE Section 32-T2S-R5W

State:

Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT

(Submit In Duplicate)

☐ Abandonment☐ Casing Repair☐ Change of Plans☐ Conversion to Injection☐ Fracture Treat☐ Multiple Completion☐ Other☐ New Construction☐ Pull or Alter Casing☐ Recompletion☐ Shoot or Acidize☐ Vent or Flare☐ Water Shut-Off

SUBSEQUENT REPORT

(Submit Original Form Only)

☒ Abandonment *☐ Casing Repair☐ Change of Plans☐ Conversion to Injection☐ Fracture Treat☐ Other☐ New Construction☐ Pull or Alter Casing☐ Shoot or Acidize☐ Vent or Flare☐ Water Shut-Off

Approximate date work will start

Date of work completion 6/17/94

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see attached chronological history for work performed to P&A the subject well.

13.

Name & Signature:

N.O. Shiflett / sep

N.O. Shiflett

Title: District Drilling Manager

Date:

09/20/94

(This space for State use only)

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

BROADHEAD #1-32B5 (P&A)
ALTAMONT FIELD
DUCHESNE COUNTY, UT
WI: 75.0% ANR AFE: 64977
TD: 11,820'
5" LINER @ 10,171'-11,817'
CWC(M\$): 79.2

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6/14-17/94 Well P&A'd 6/17/94.
MIRU Wisco 6/14/94. POH & LD rods. ND WH, NU BOP. POH w/tbg. RIH w/CICR on tbg, set 7" CICR @ 8781'. Load csg w/9 ppg fluid, test csg to 1000# - OK. Sqz w/50 sx Class "G" neat (1.15 CF/sx) below RET. PU & spot 75 sx Class "G" neat from 8370-8781'. POH & spot 150 sx Class "G" w/3% CaCl₂ @ 5848-6134'. POH w/stinger. RIH, tag plug @ 6134'. POH w/tbg to 3365'. Spot 25 sx Class "G" w/3% CaCl₂ @ 3242-3365'. POH to 250'. Spot 80 sx Class "G" w/3% CaCl₂ from sfc to 250' in the 7" csg. Cut off csg & WH. Spot 305 sx Class "G" w/3% CaCl₂ down 7" - 9 5/8" annulus. Install DHM. P&A witnessed by Dennis Ingram, State of Utah. Well P&A'd 6/17/94. Final report.

ANG1021

**P.O. BOX 2477
WILLISTON, N. DAK. 58802-2477**

CUSTOMER ORDER NO.	ORDERED BY	DATE
CUSTOMER REQUISITION NO.	TAKEN BY	FILLED BY
ORDERED VIA		
SHIPPED VIA		
SPECIAL INSTRUCTIONS		

SERVICES PERFORMED BY <i>JB</i>		TOTAL <i>24,365.00</i>	
WISCO REPRESENTATIVE <i>[Signature]</i>		DT NO. N ^o 7370	
Thank You Mr. _____ APPROVED BY _____		INVOICE NO. <i>9239</i> DATE <i>1-23-94</i>	
_____ COMPANY NAME			